

Fig. 1A

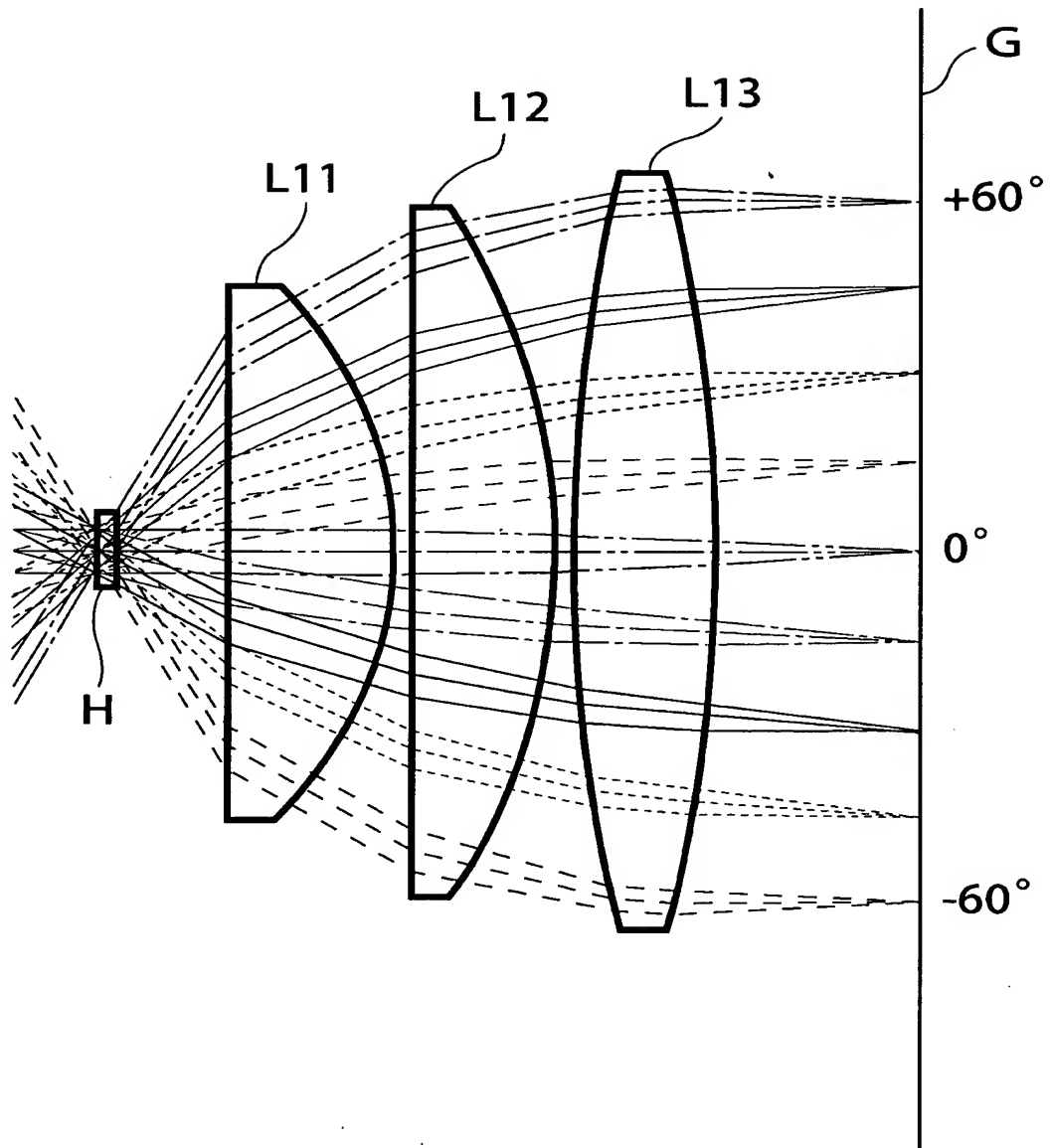


Fig. 1B

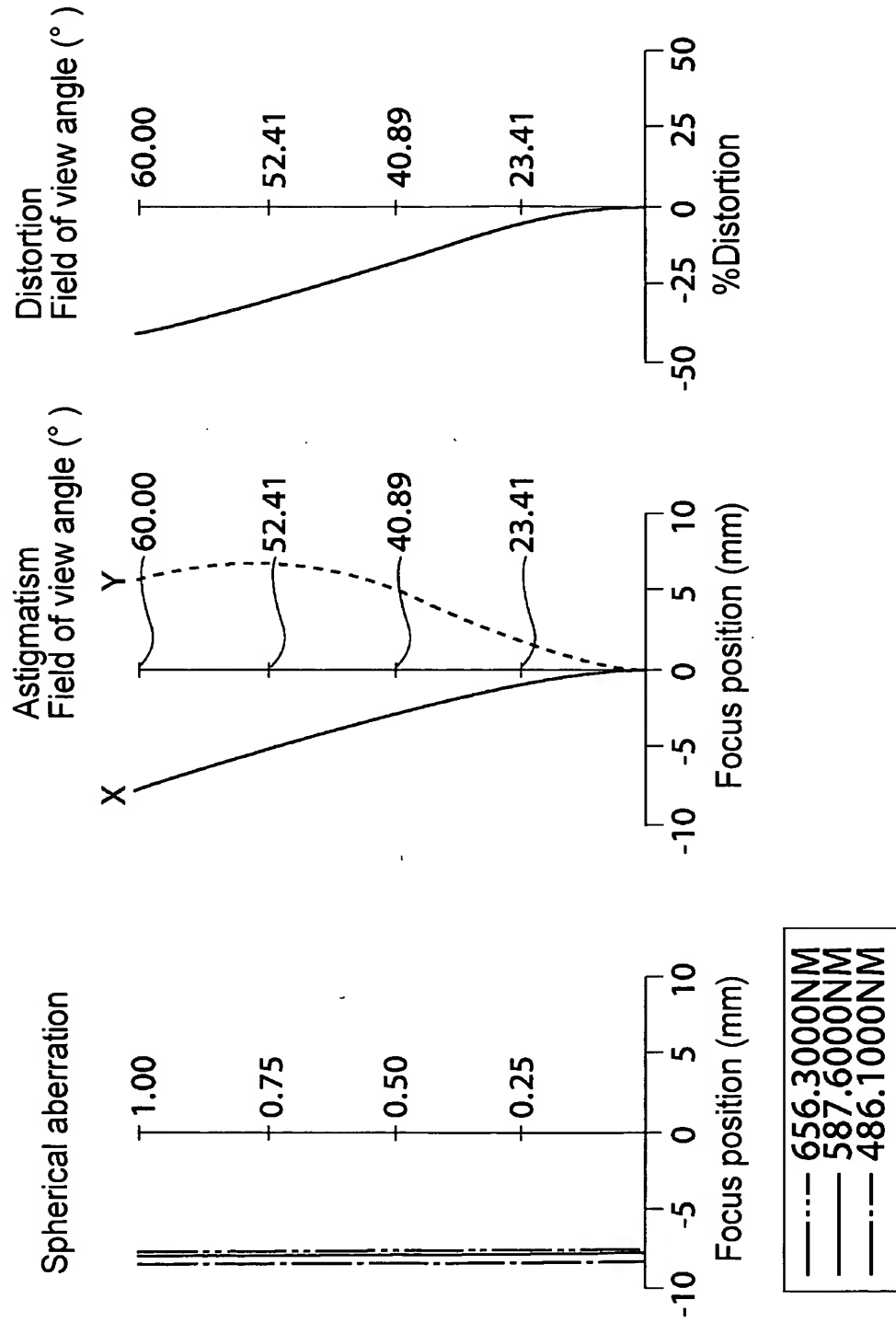


Fig. 1C

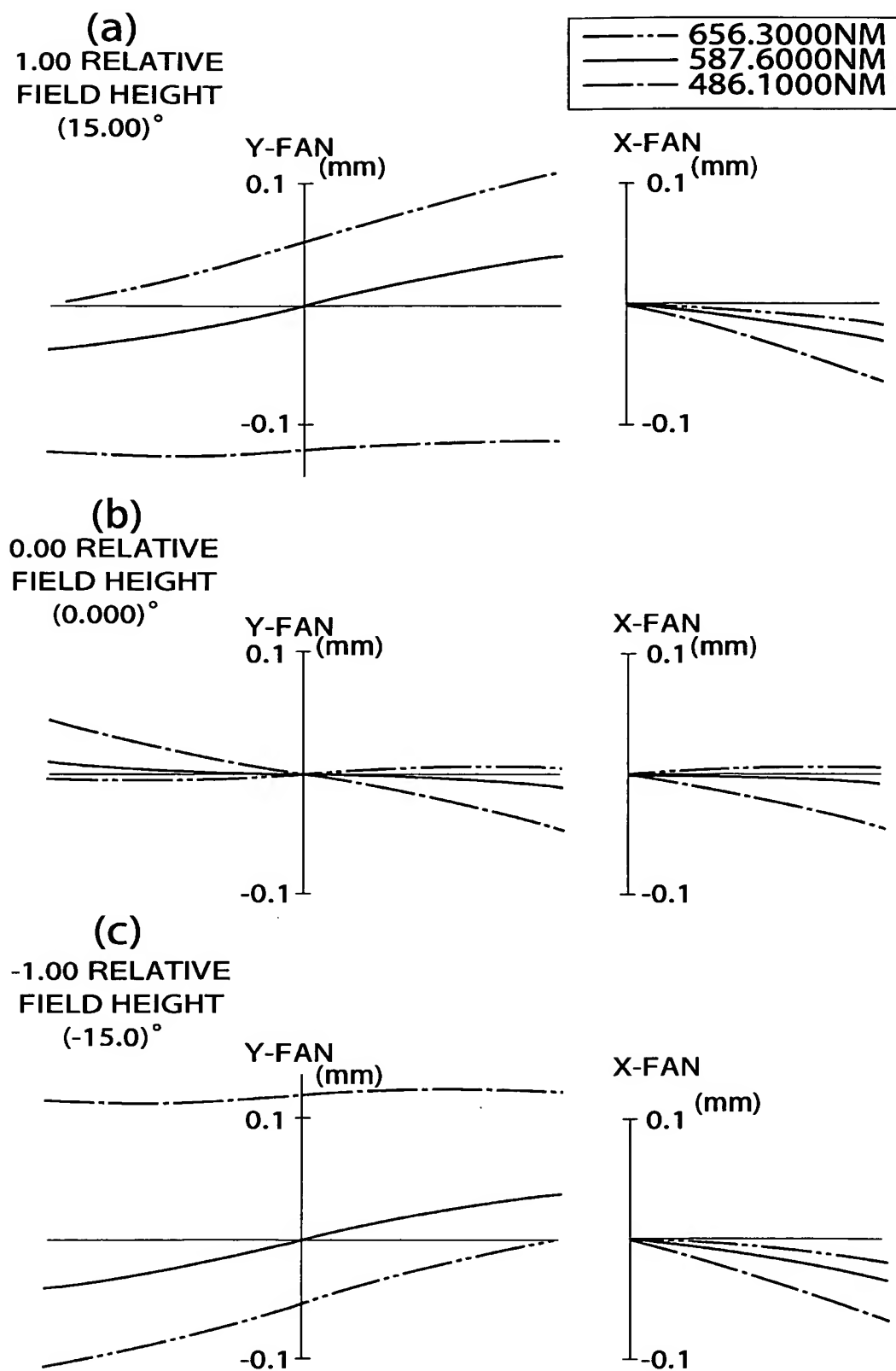


Fig. 2A

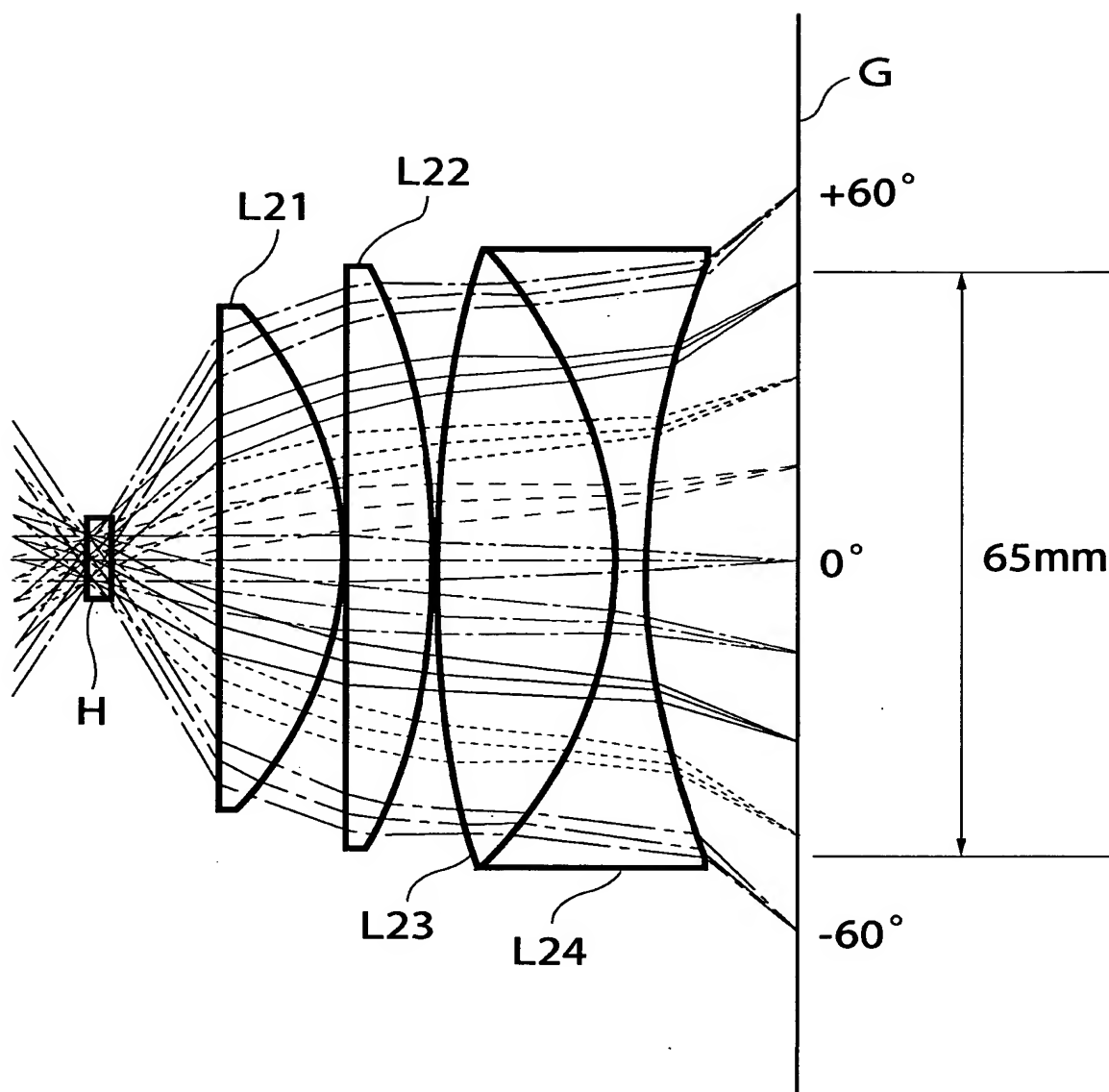


Fig. 2B

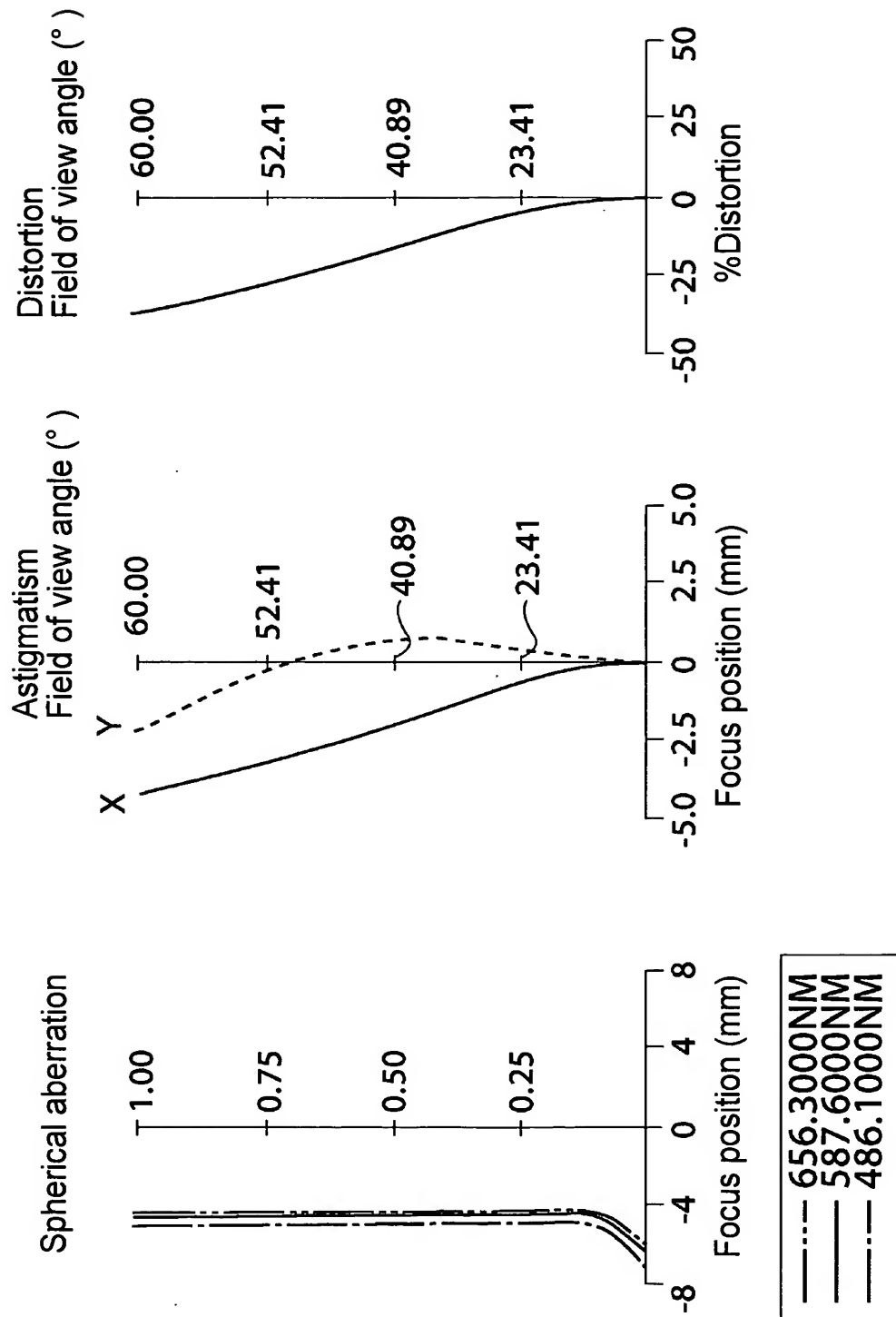


Fig. 2C

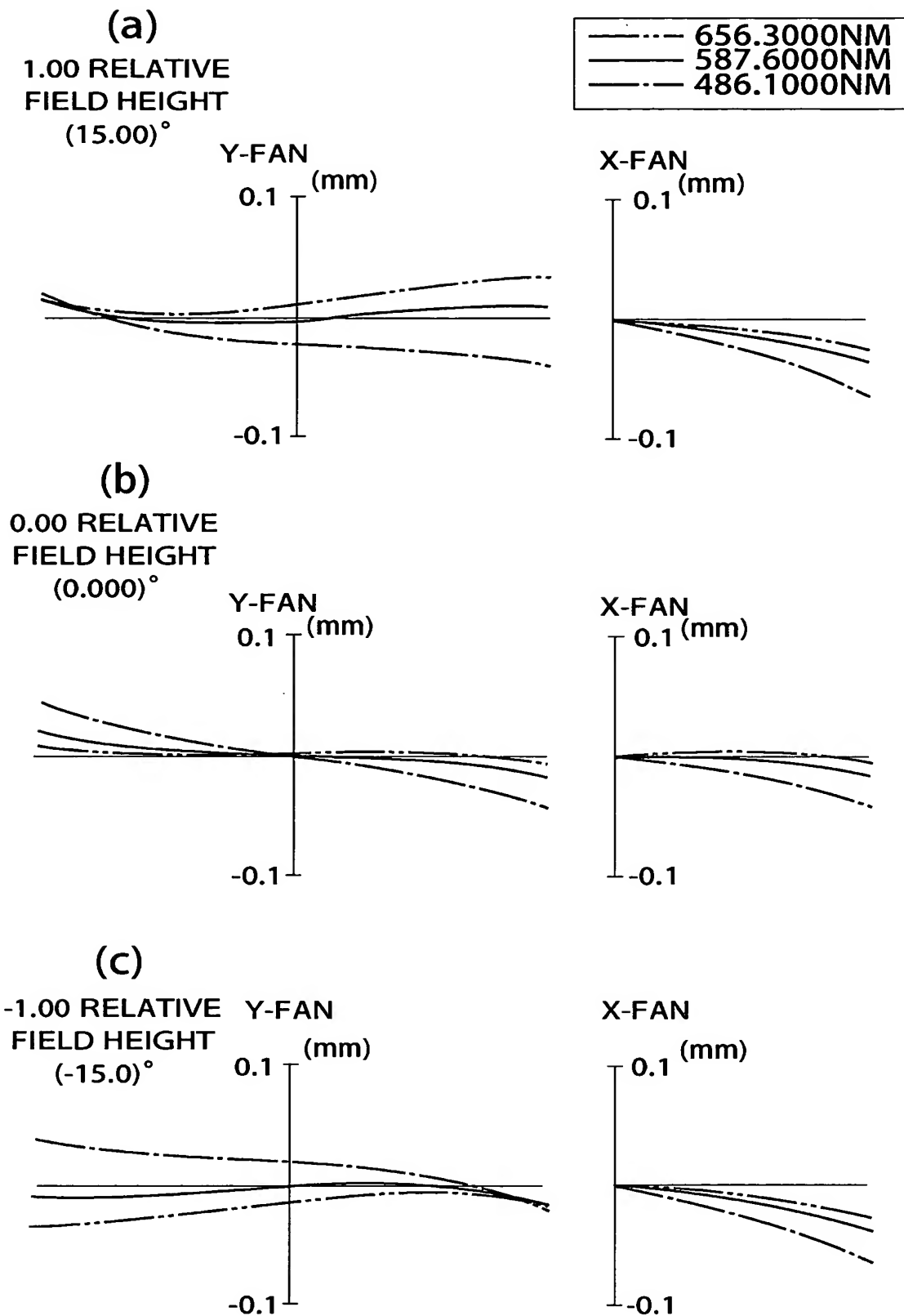


Fig. 2D

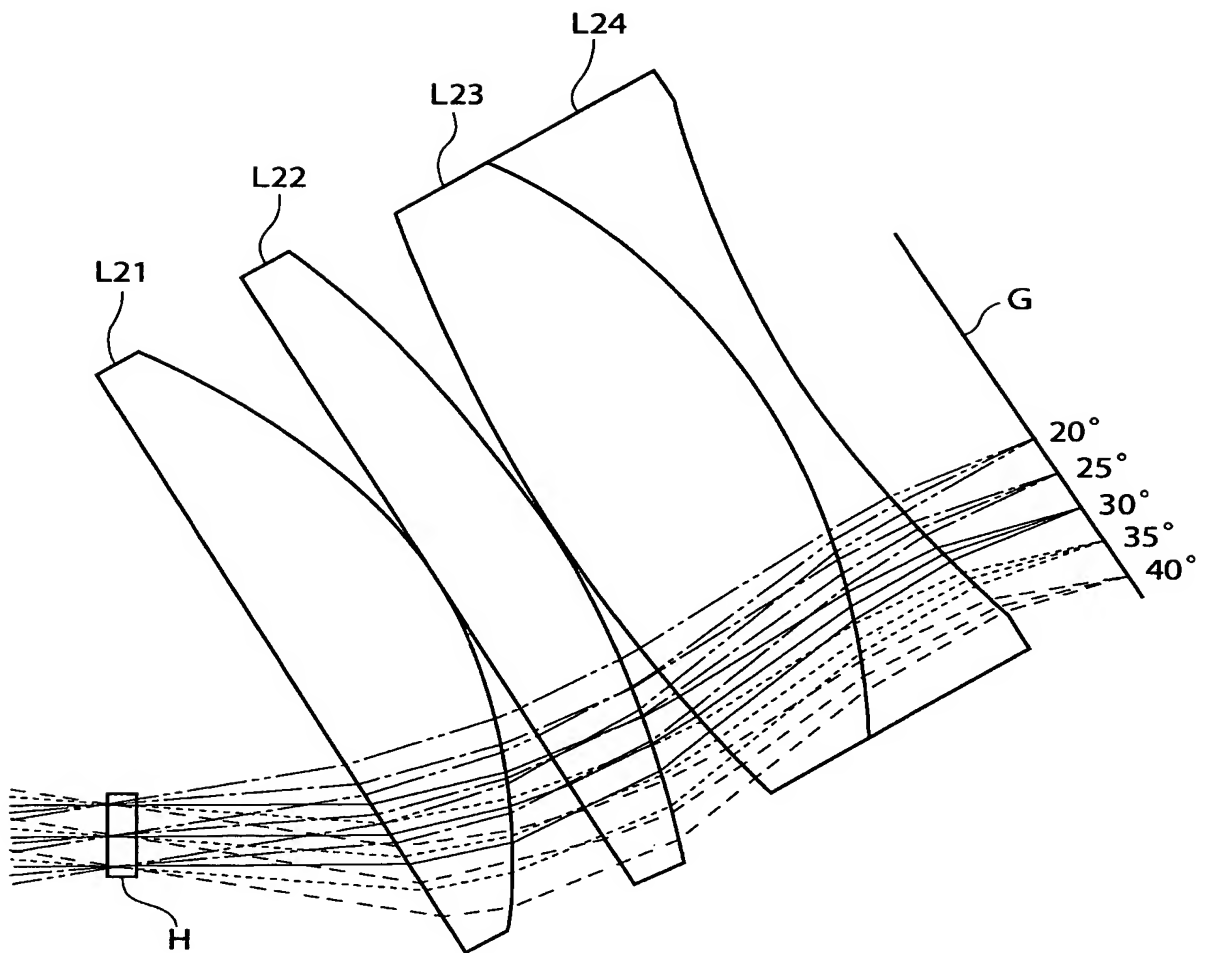


Fig. 2E

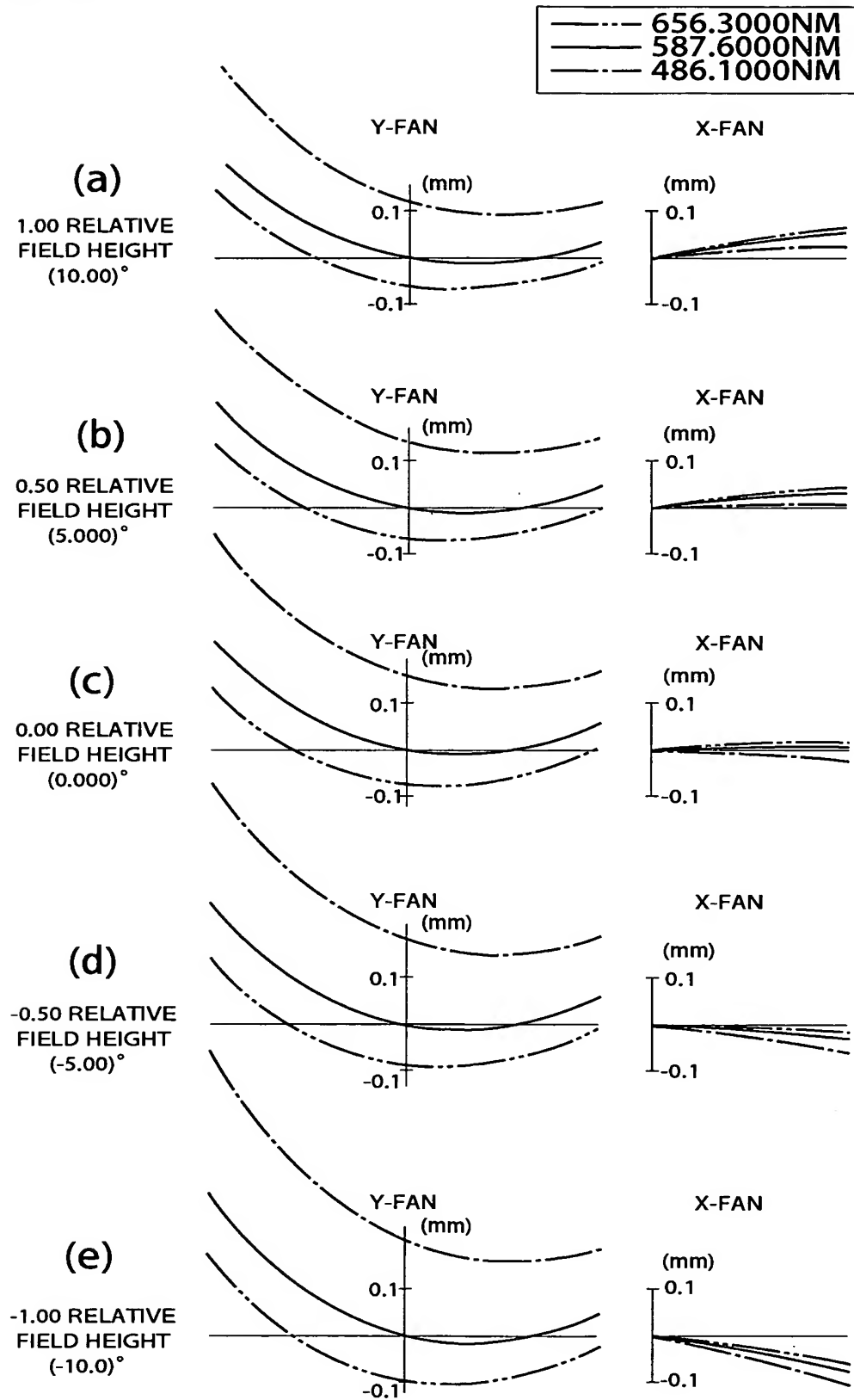


Fig. 3

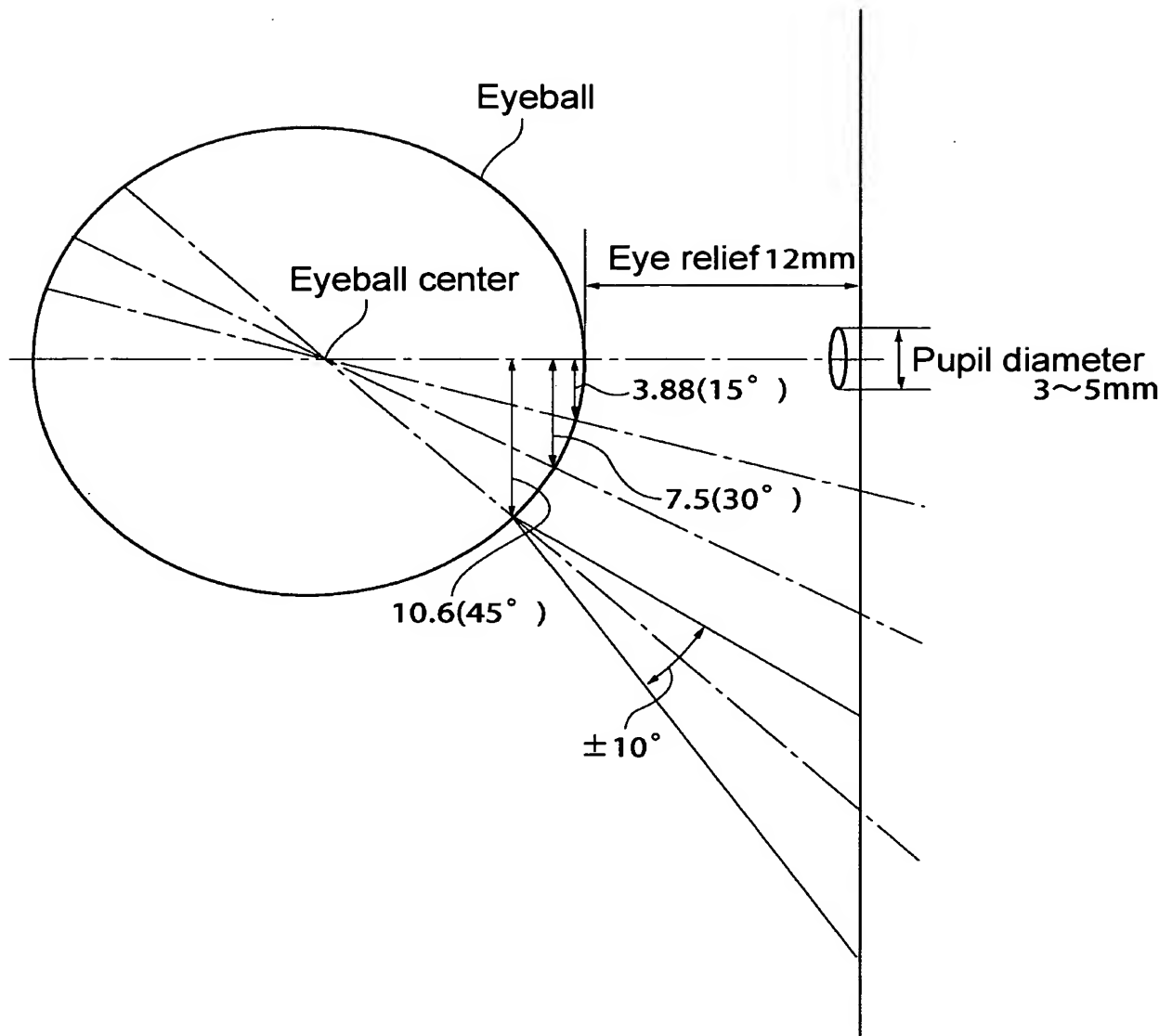


Fig. 4A

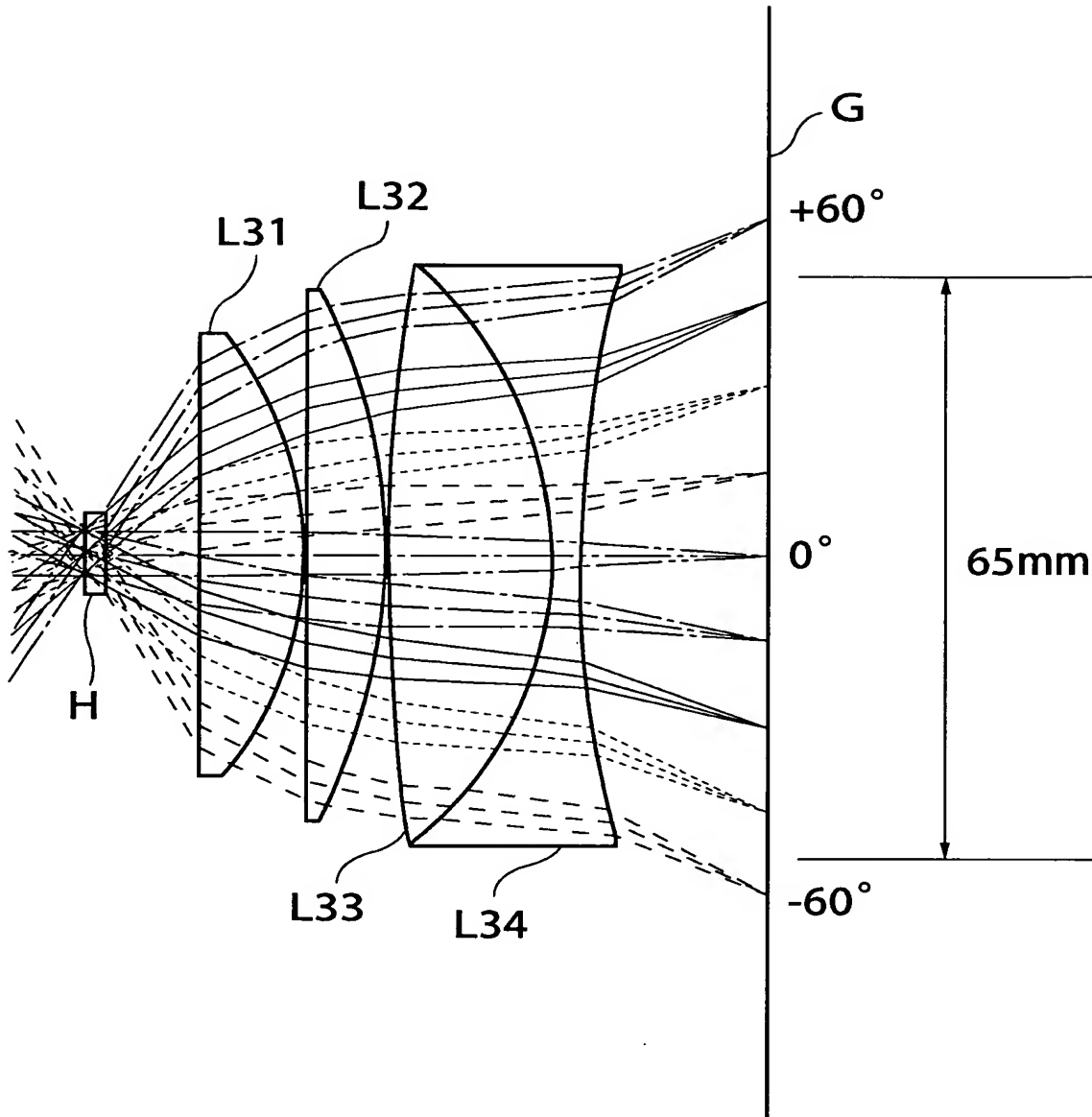


Fig. 4B

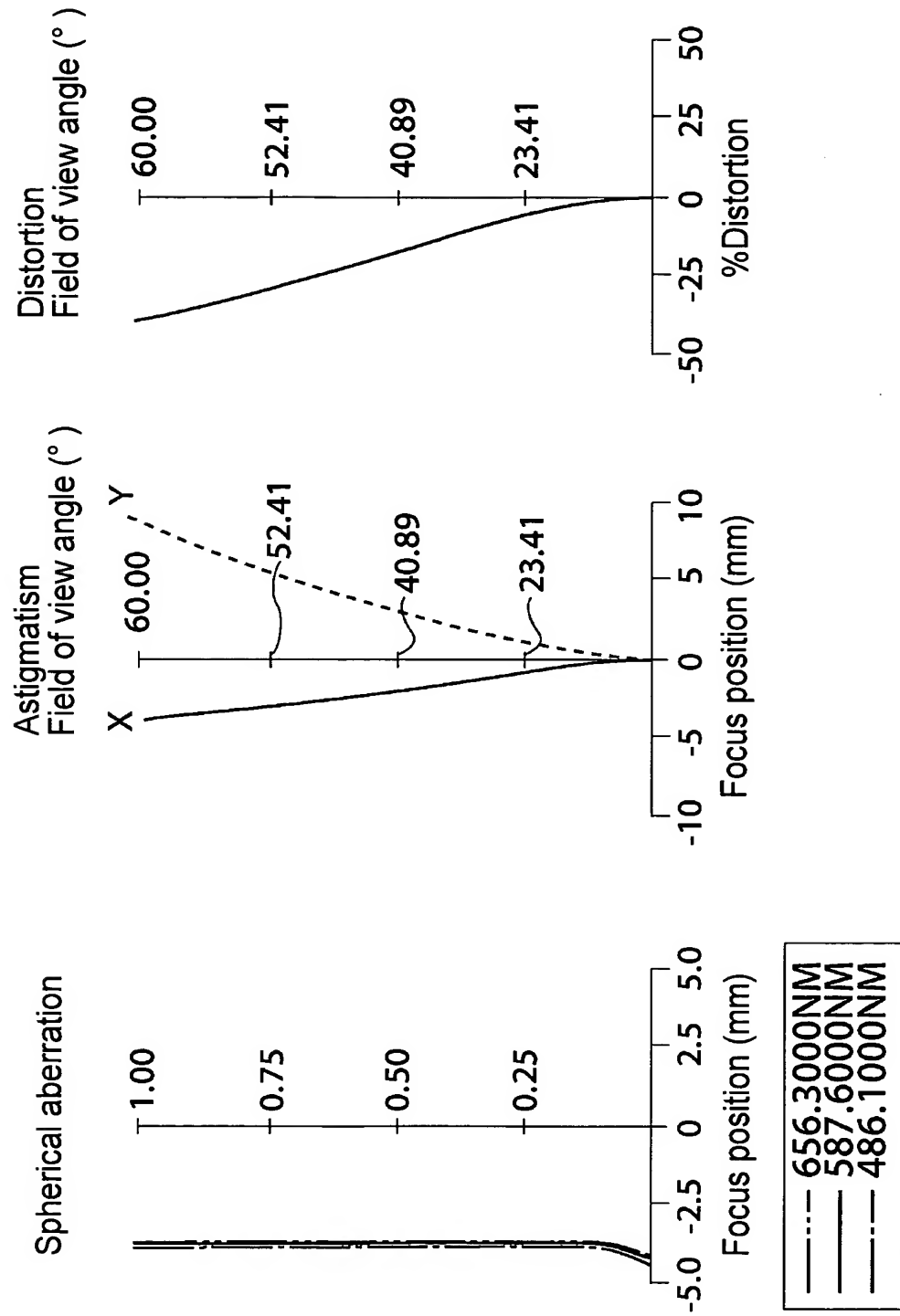


Fig. 4C

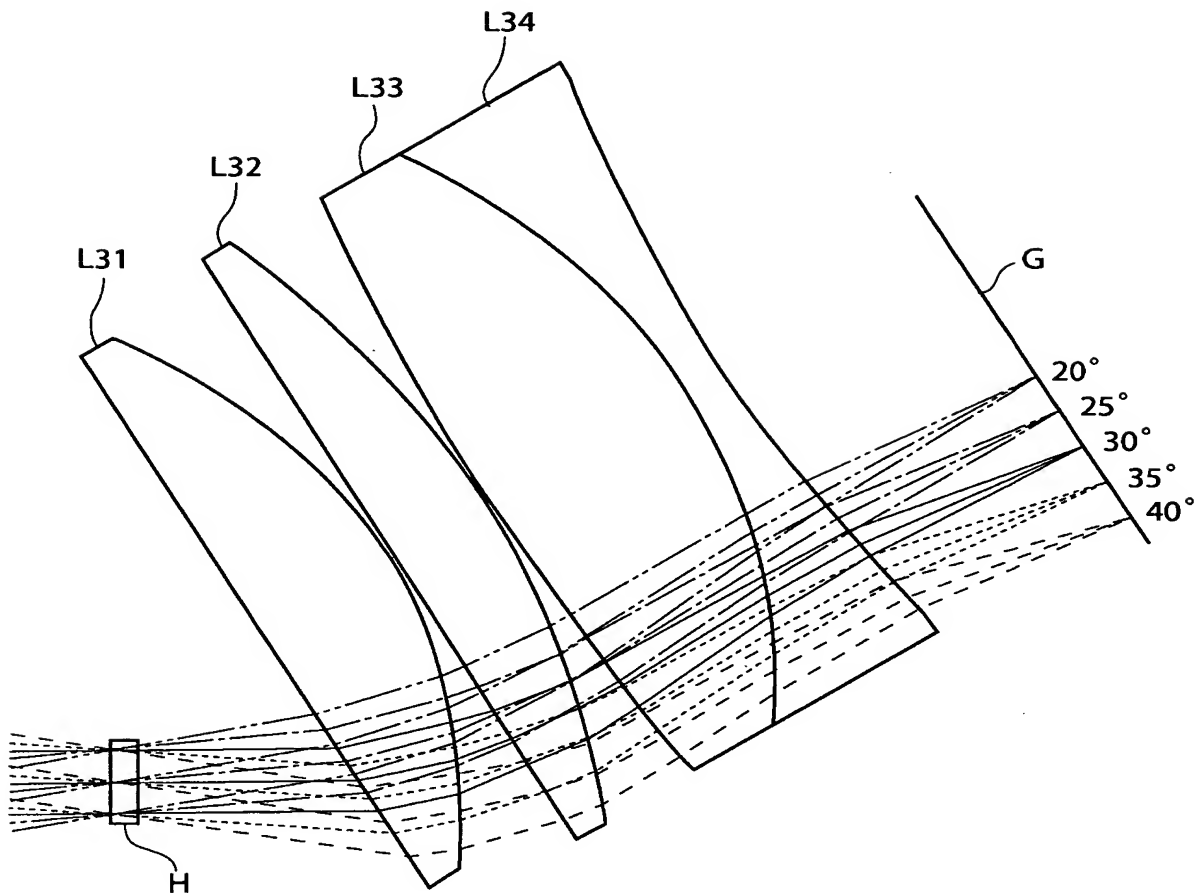


Fig. 4D

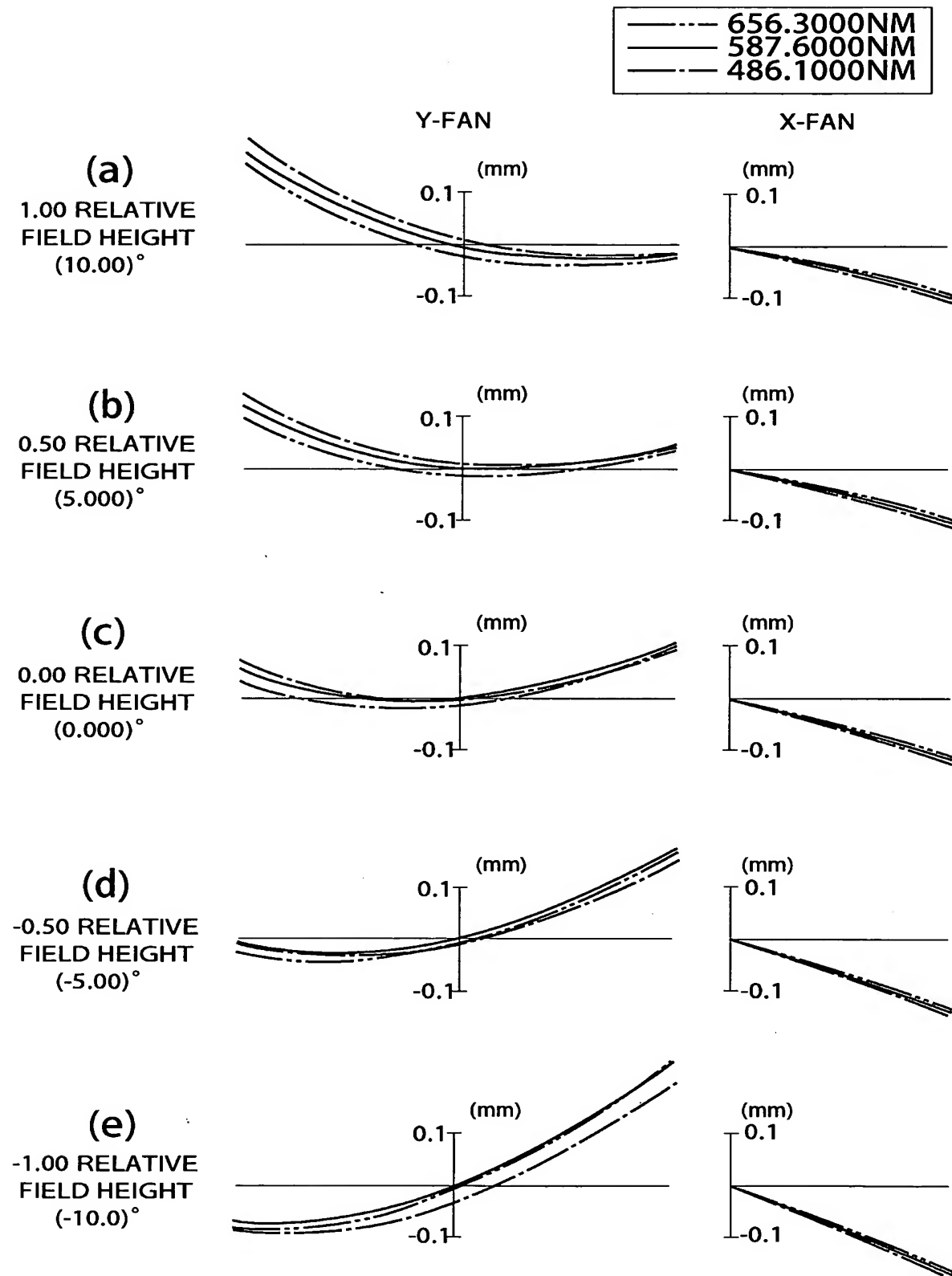


Fig. 5A

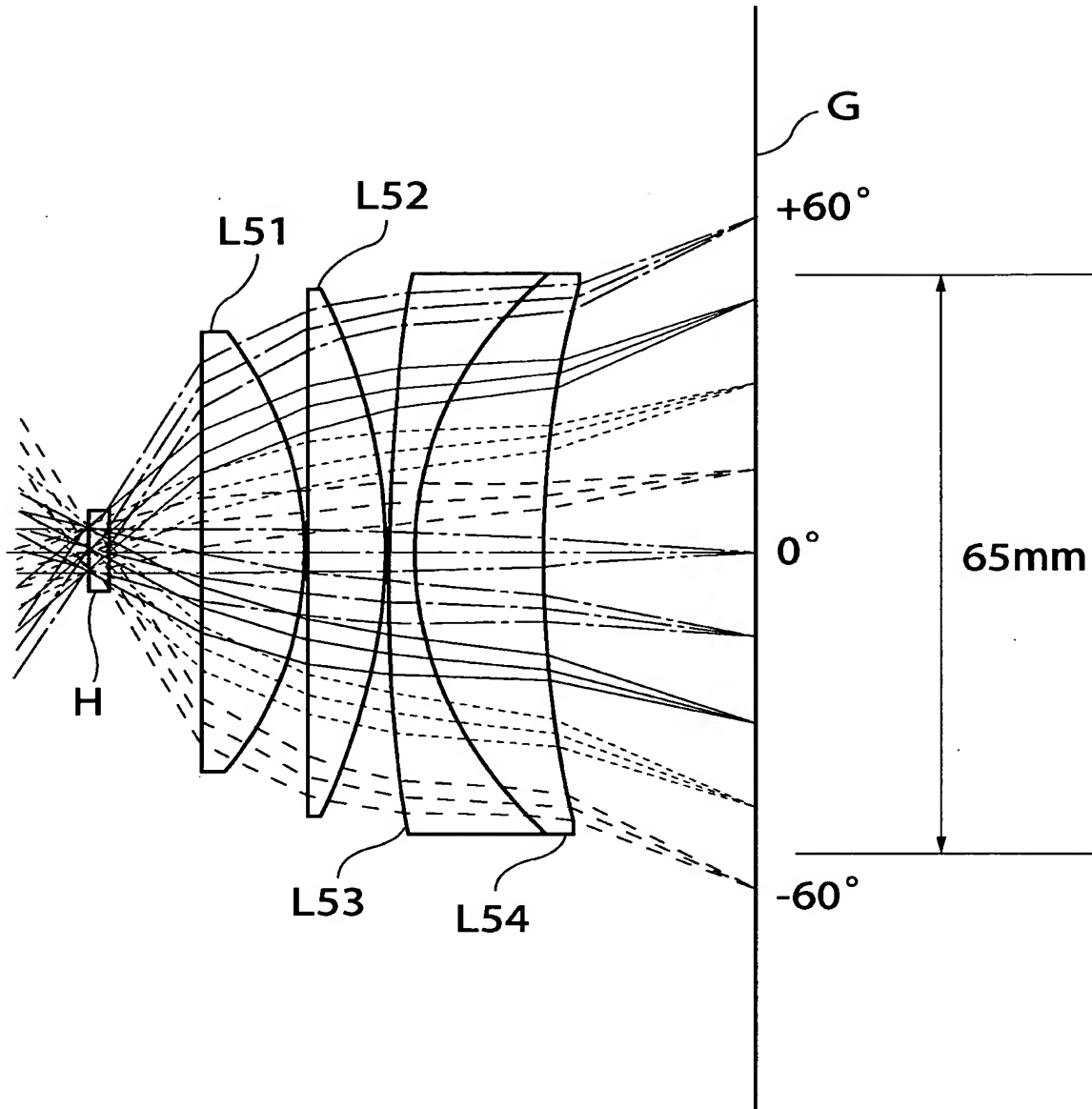


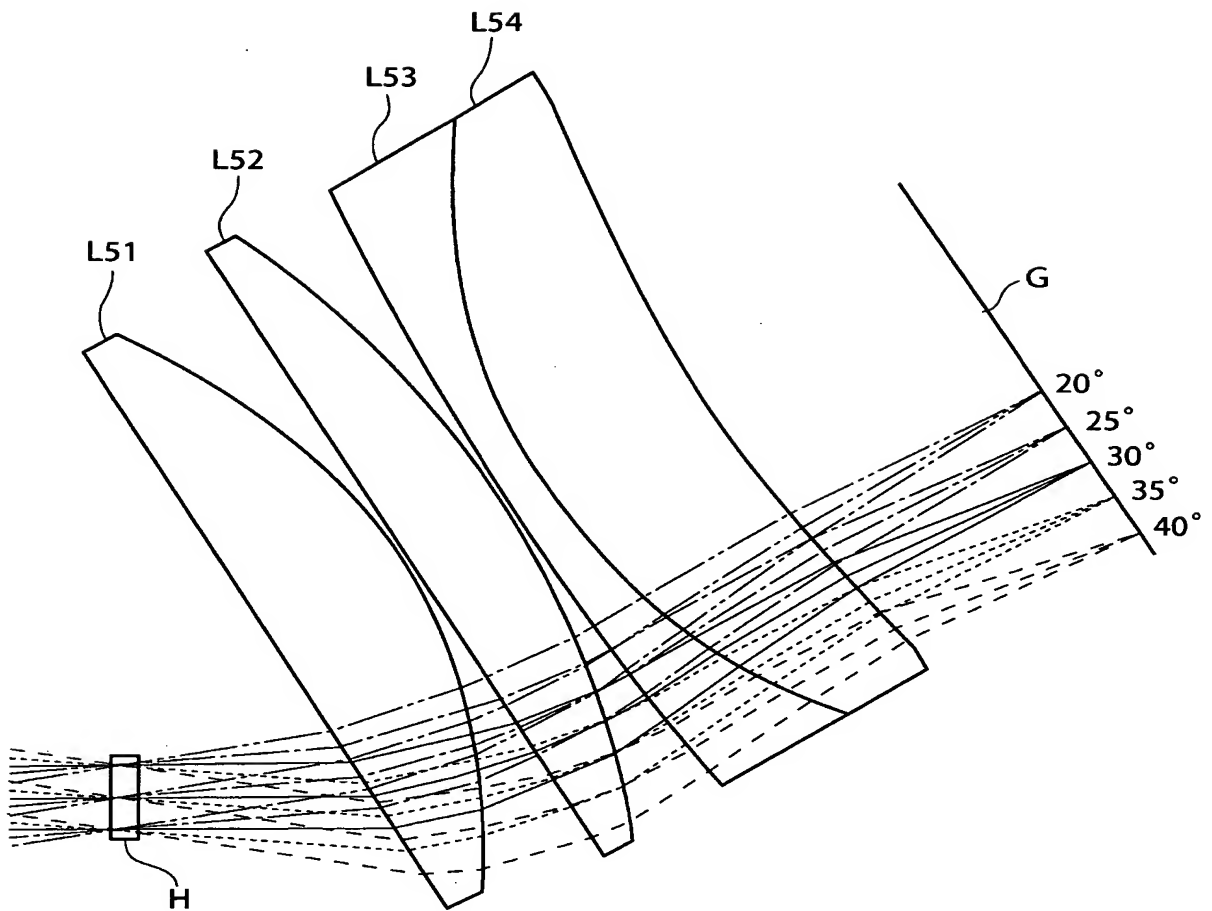
Fig. 5B

Fig. 5C

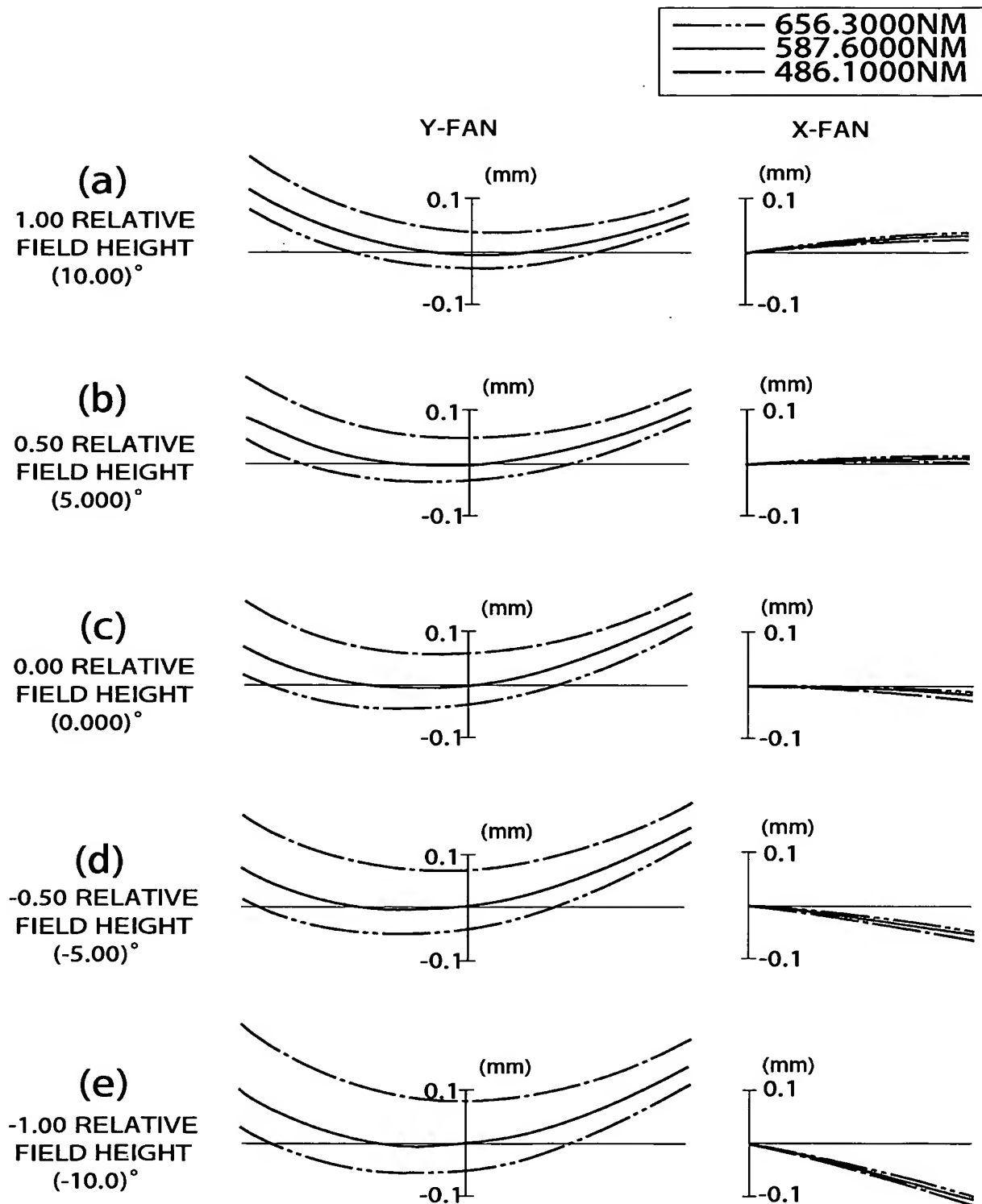


Fig. 6A

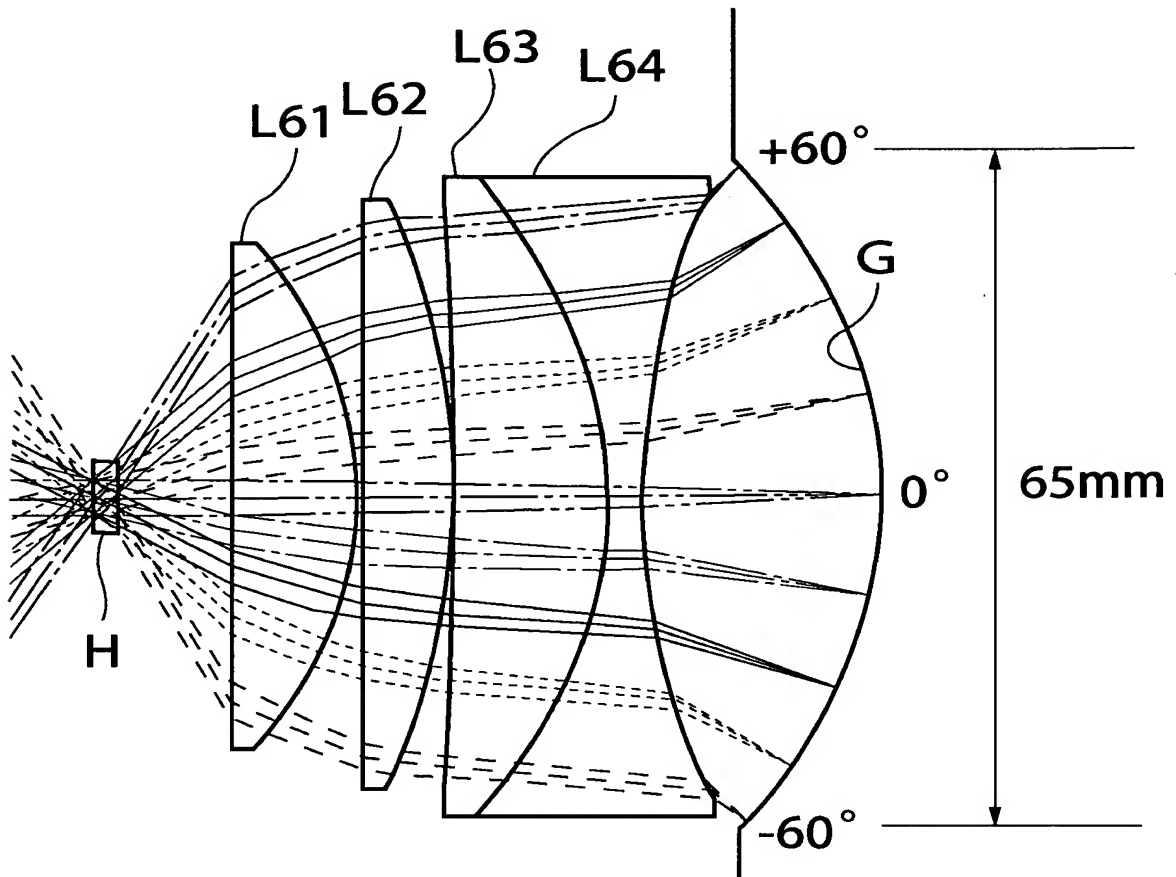


Fig. 6B

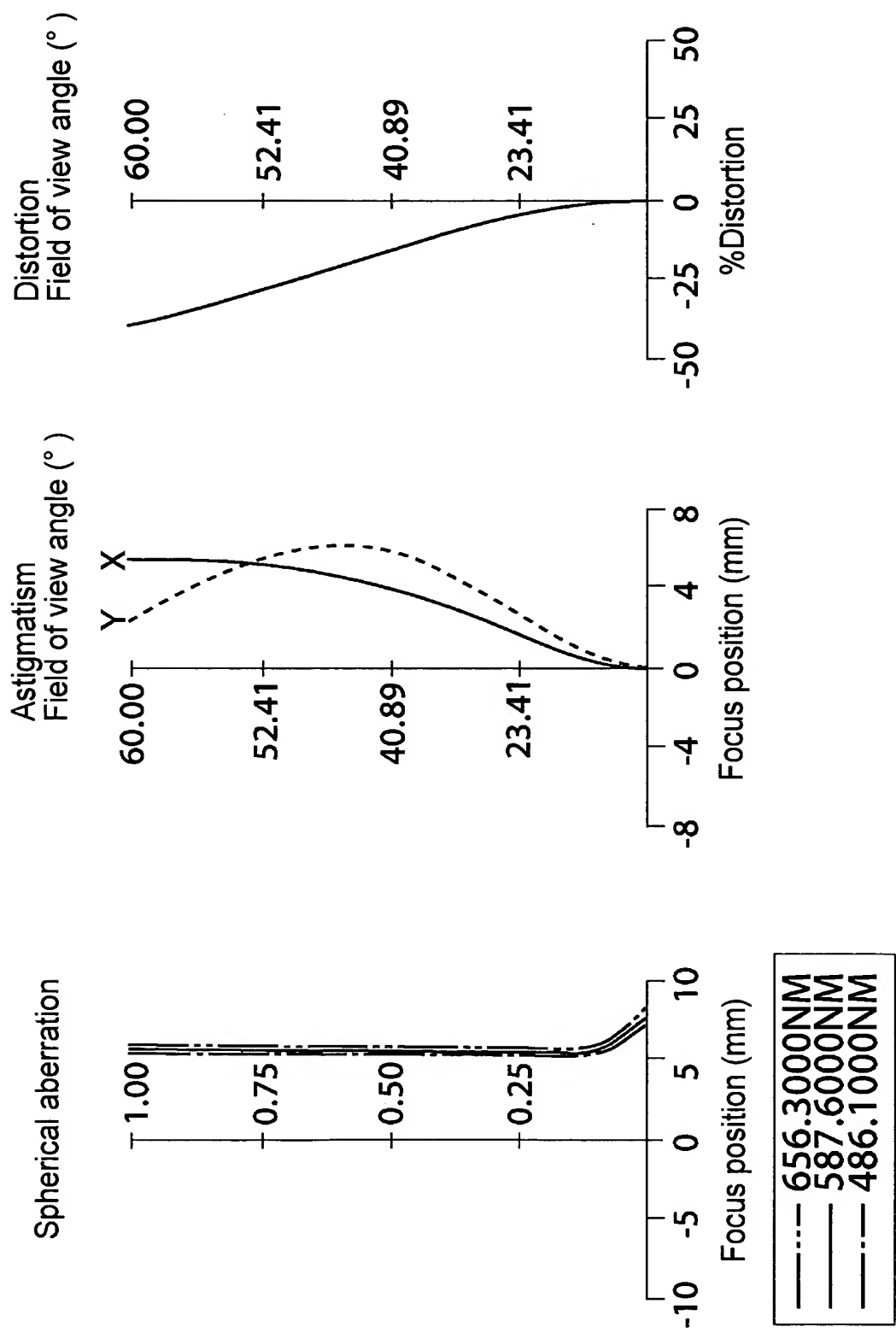


Fig. 6C

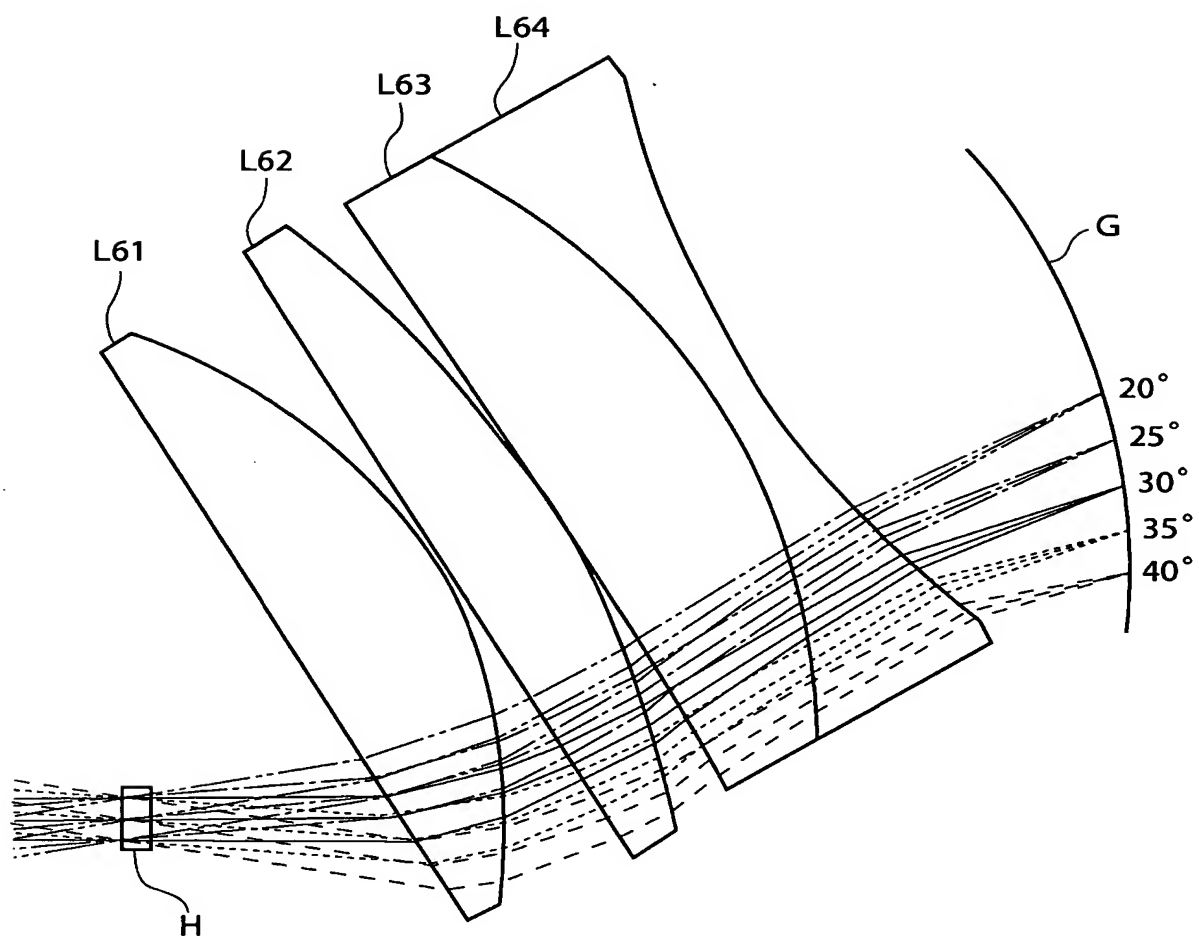


Fig. 6D

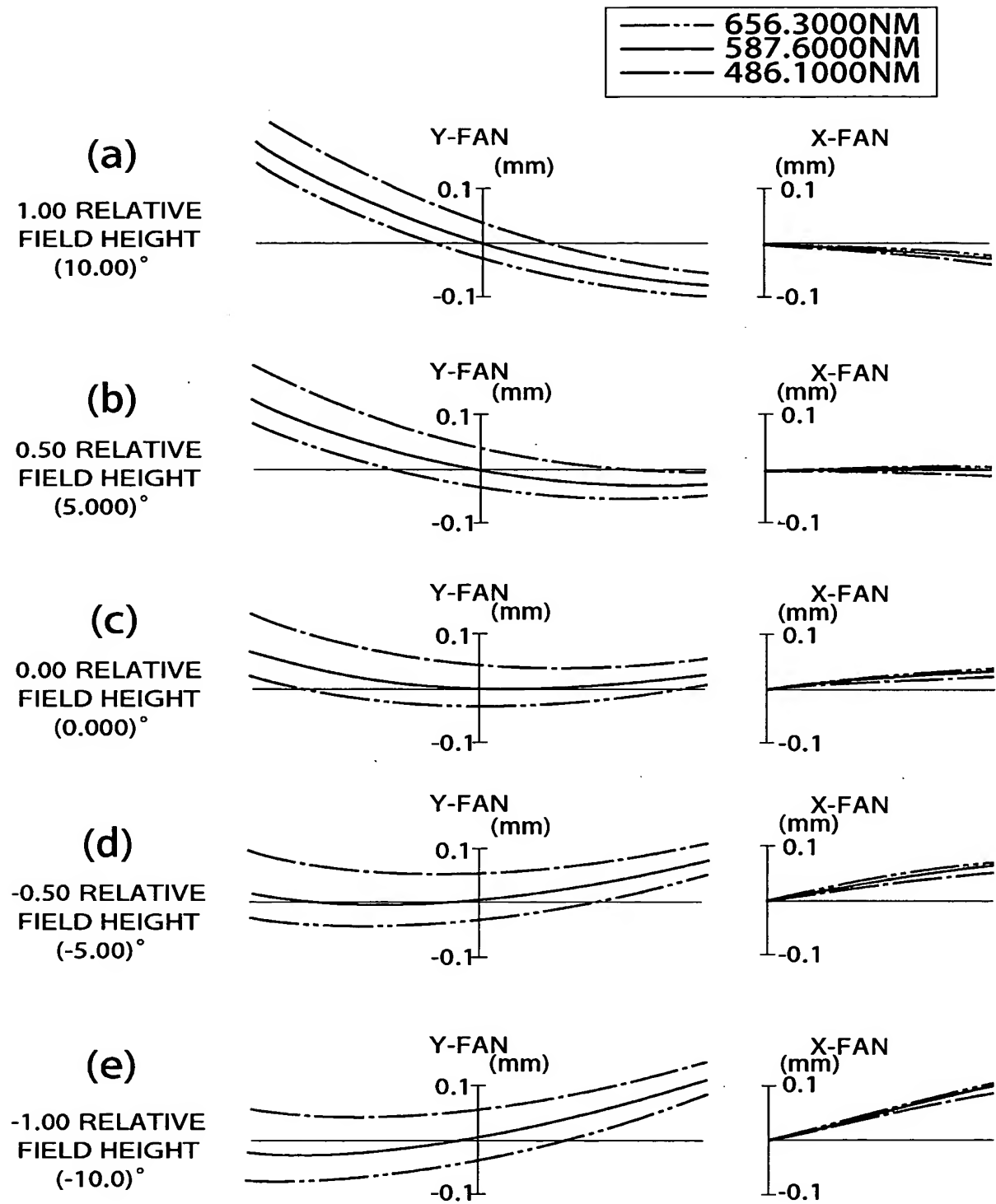


Fig. 7A

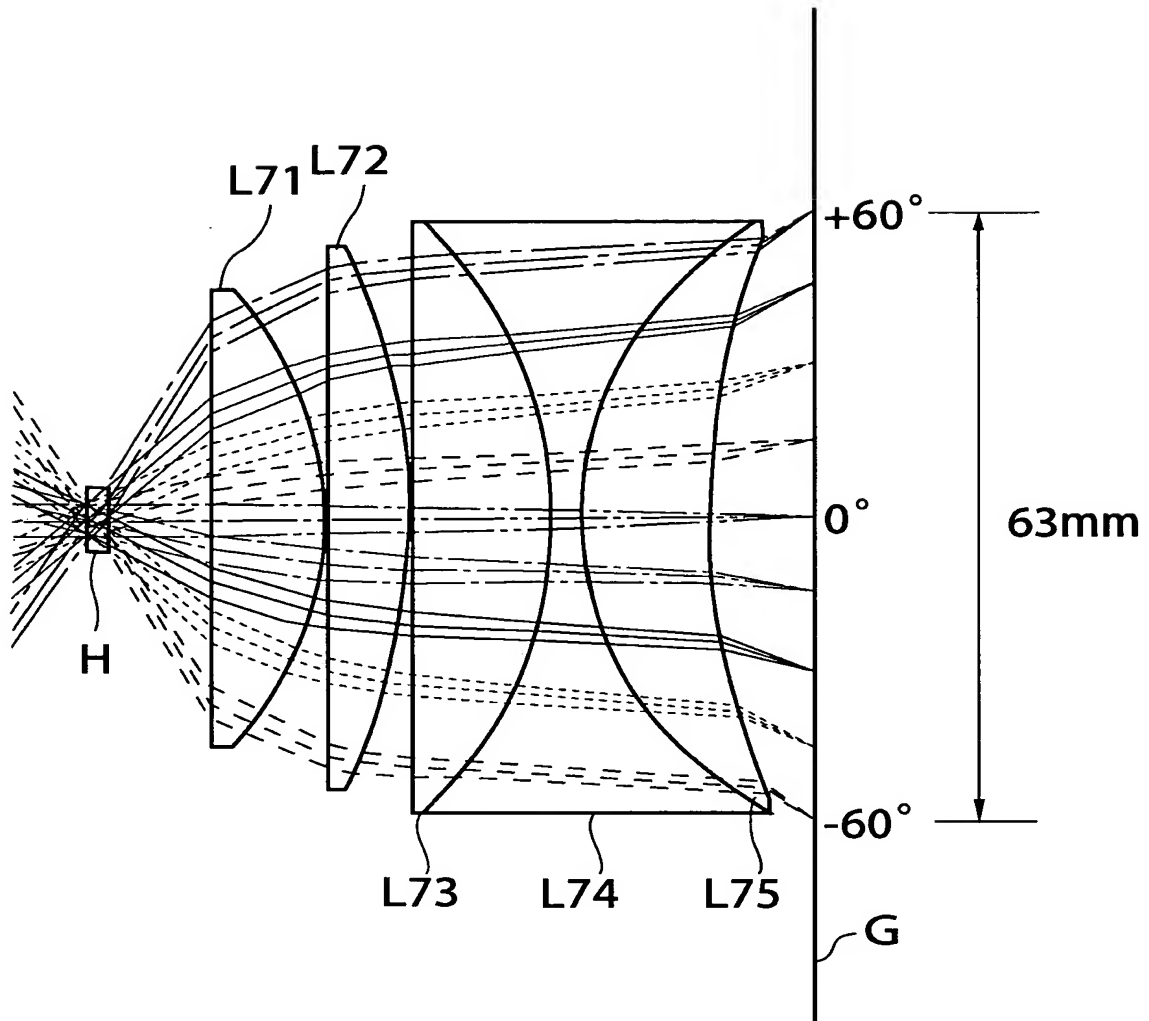


Fig. 7B

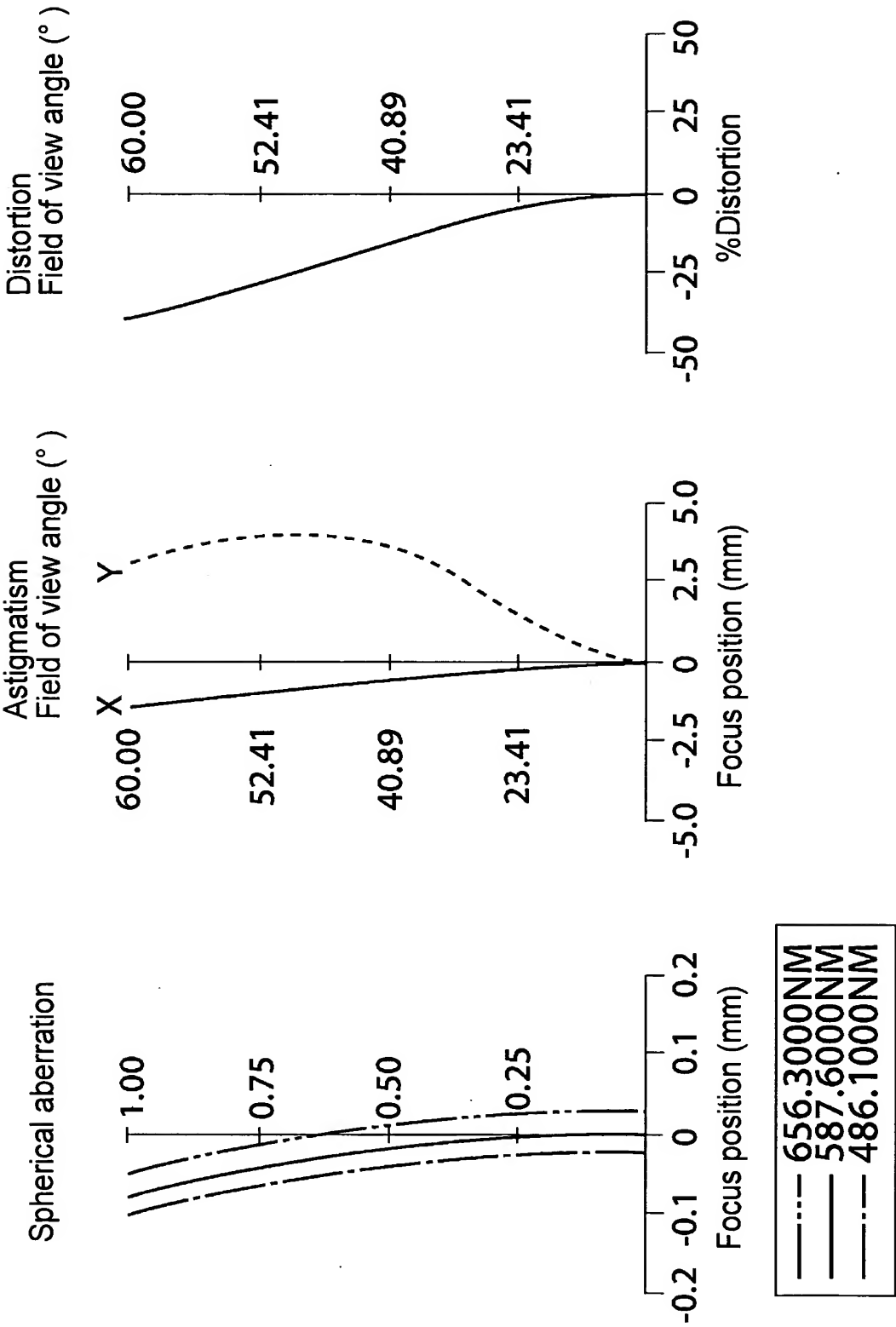


Fig. 7C

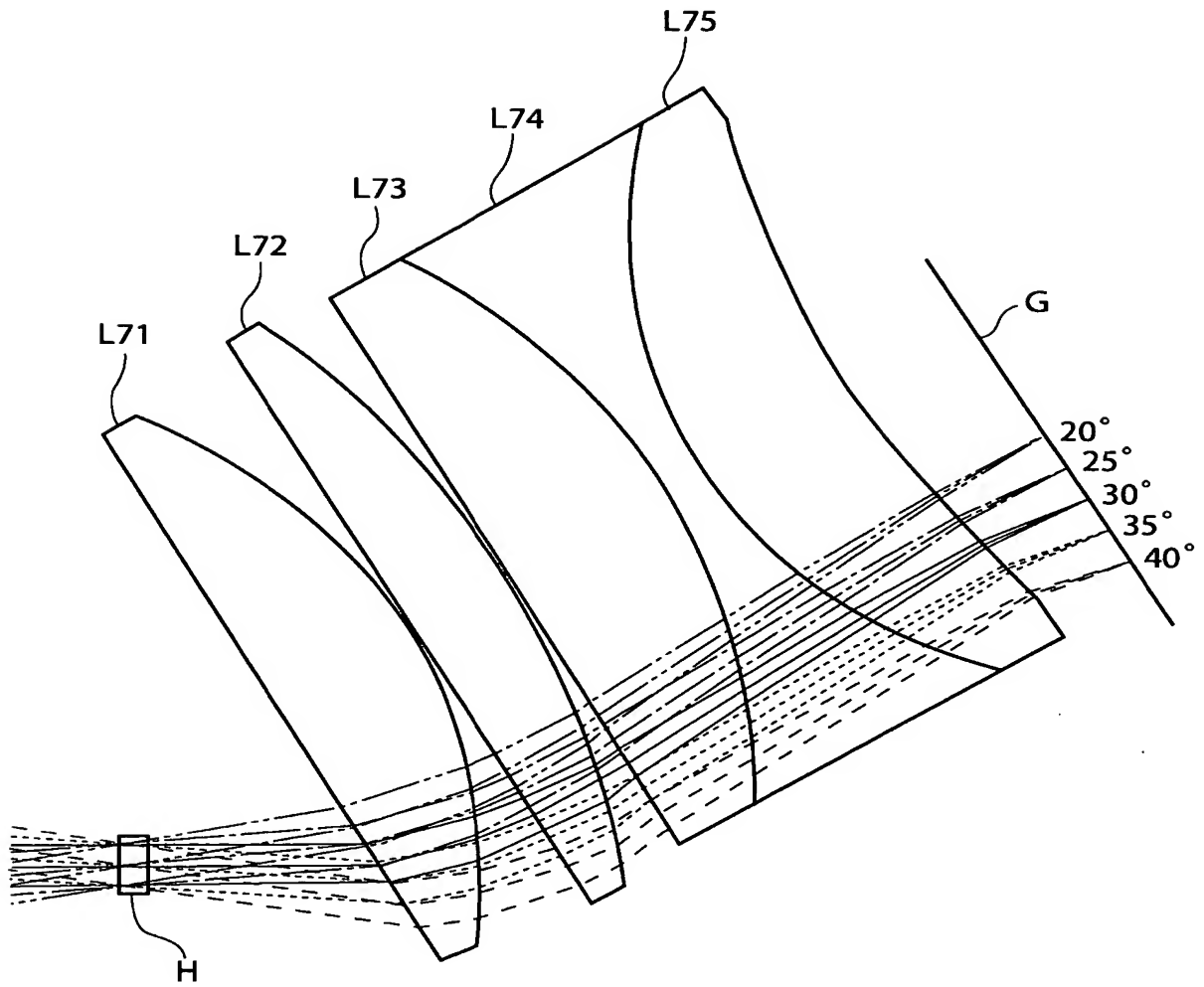


Fig. 7D

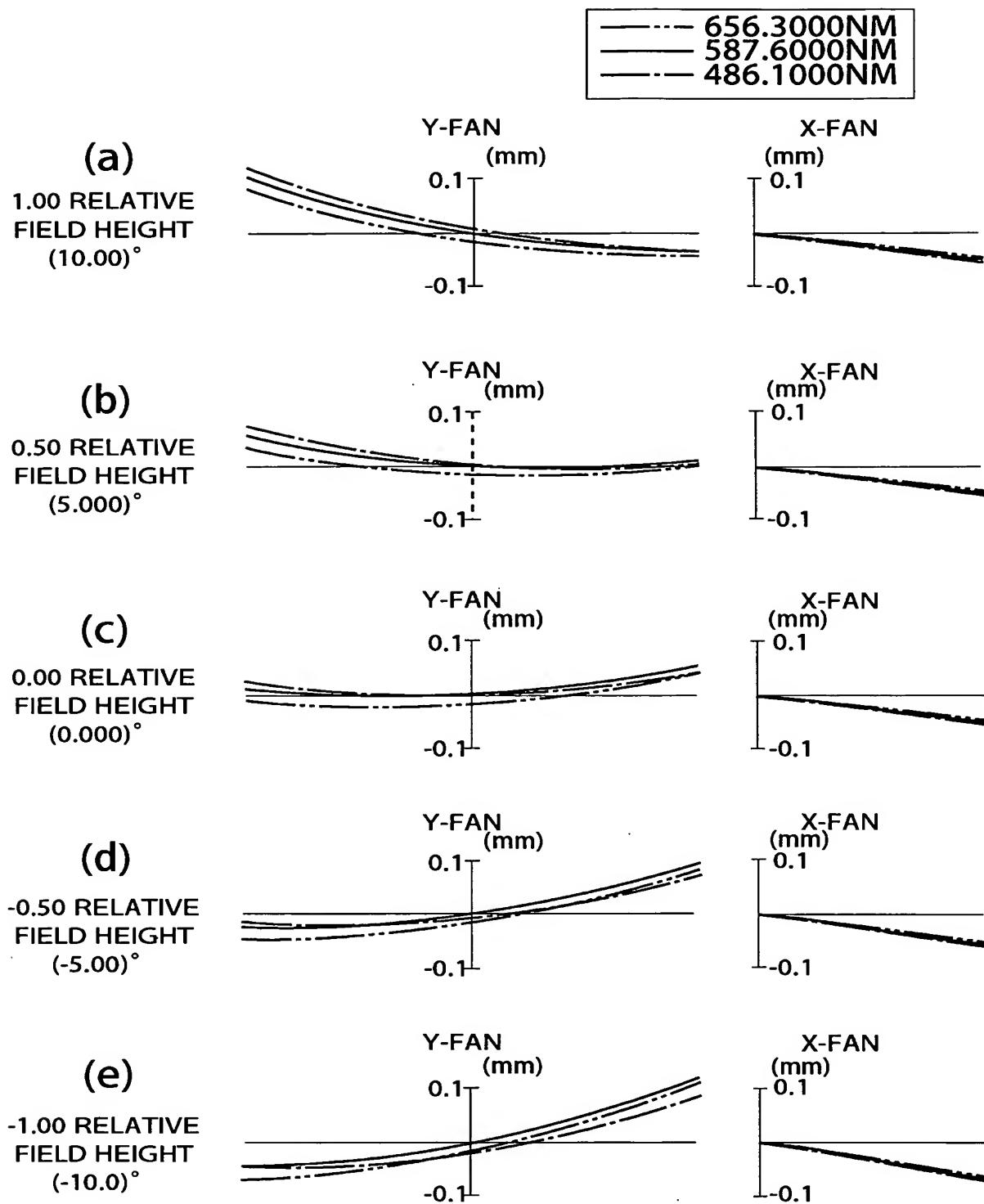
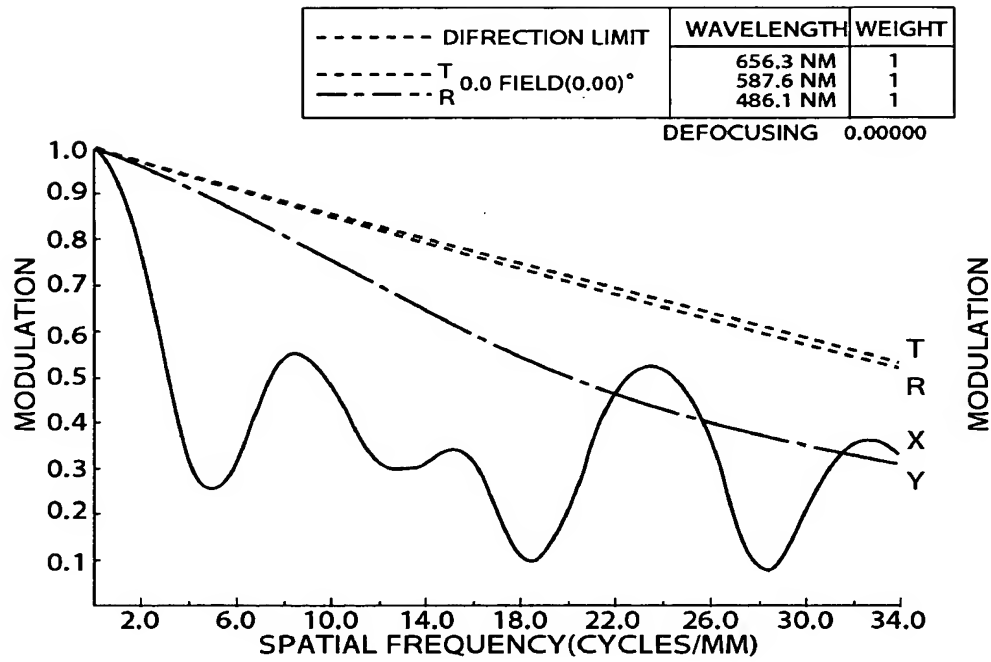


Fig. 7E

(a)



(b)

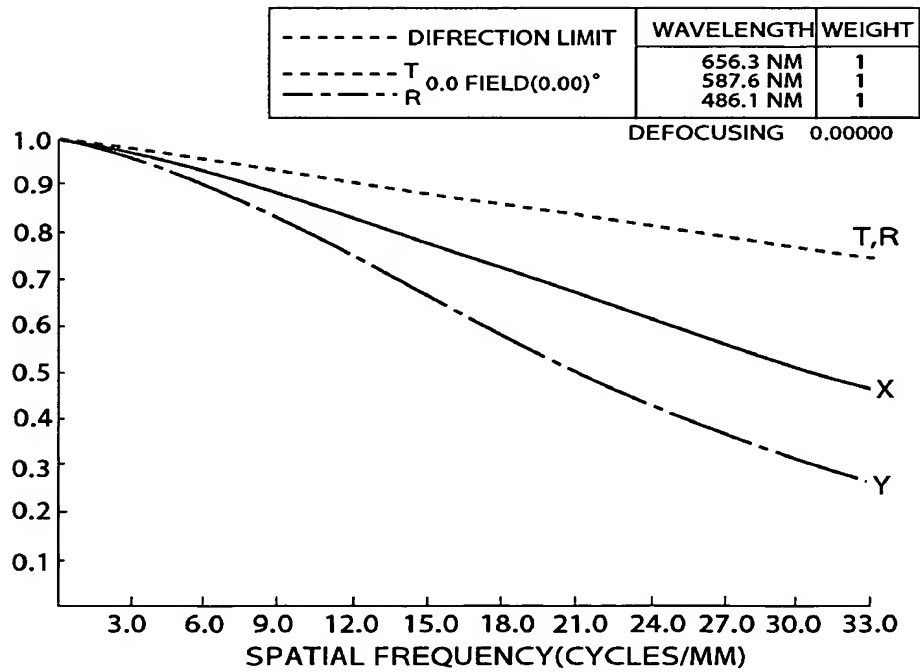


Fig. 7F

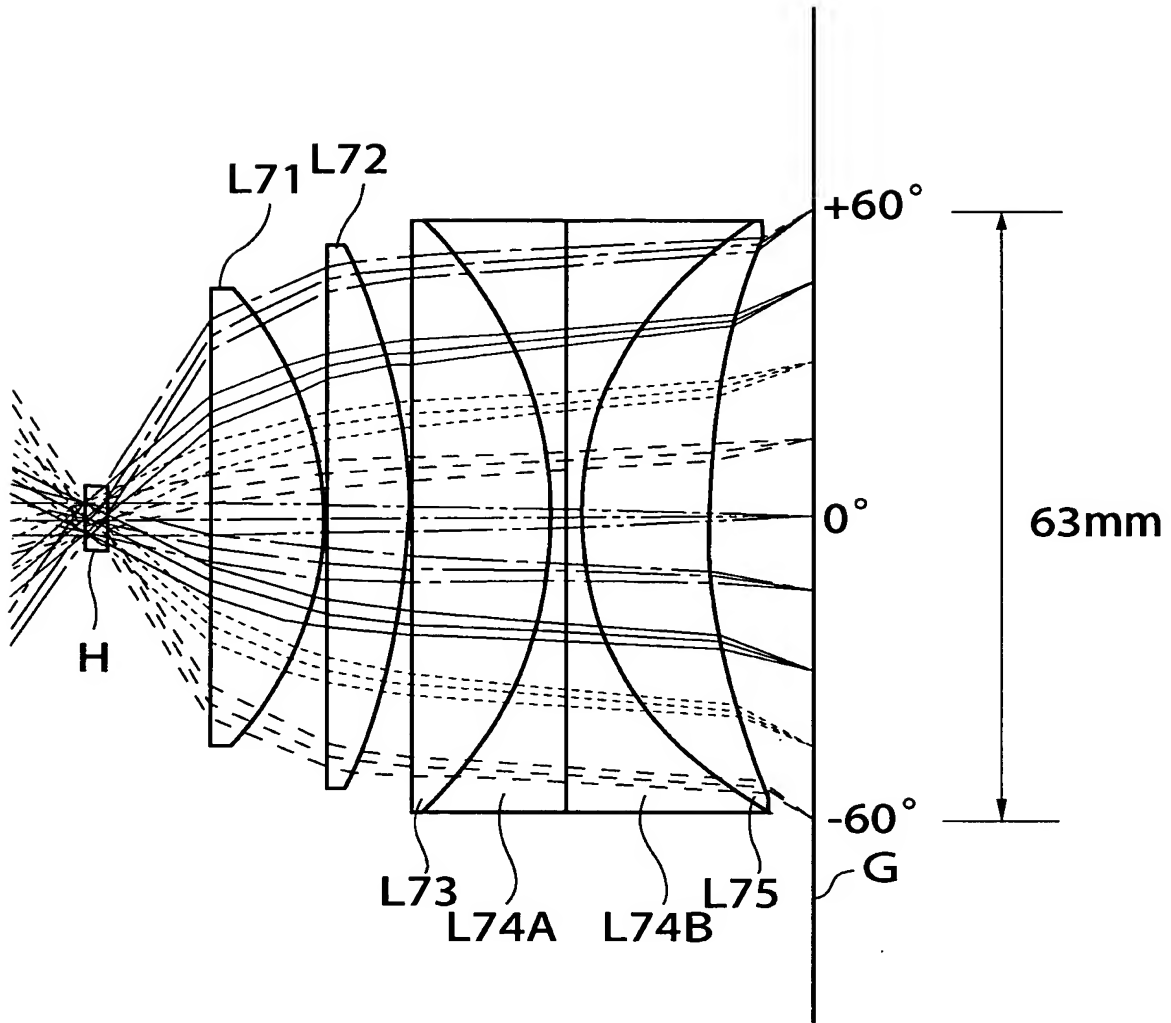


Fig. 8A

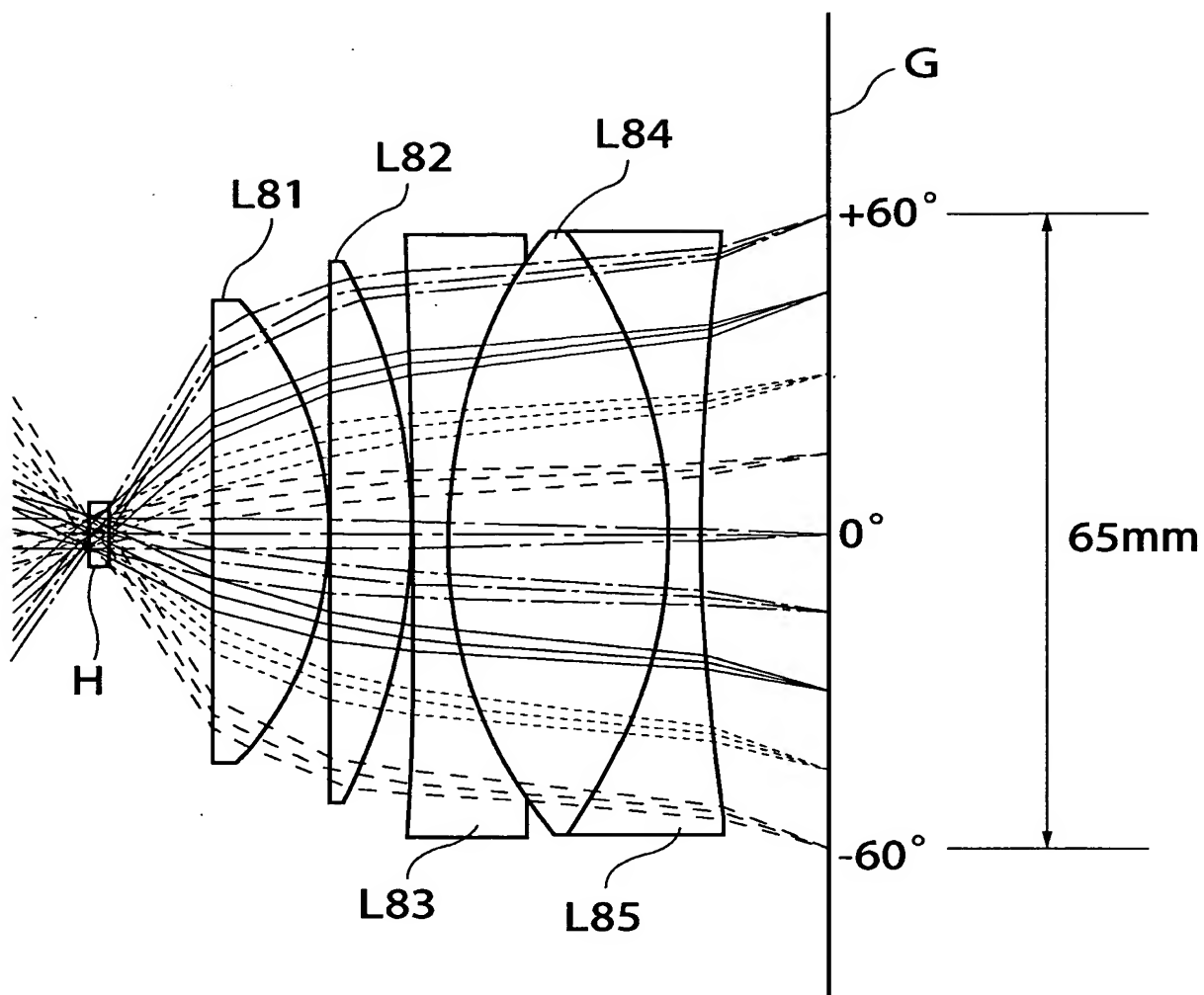


Fig. 8B

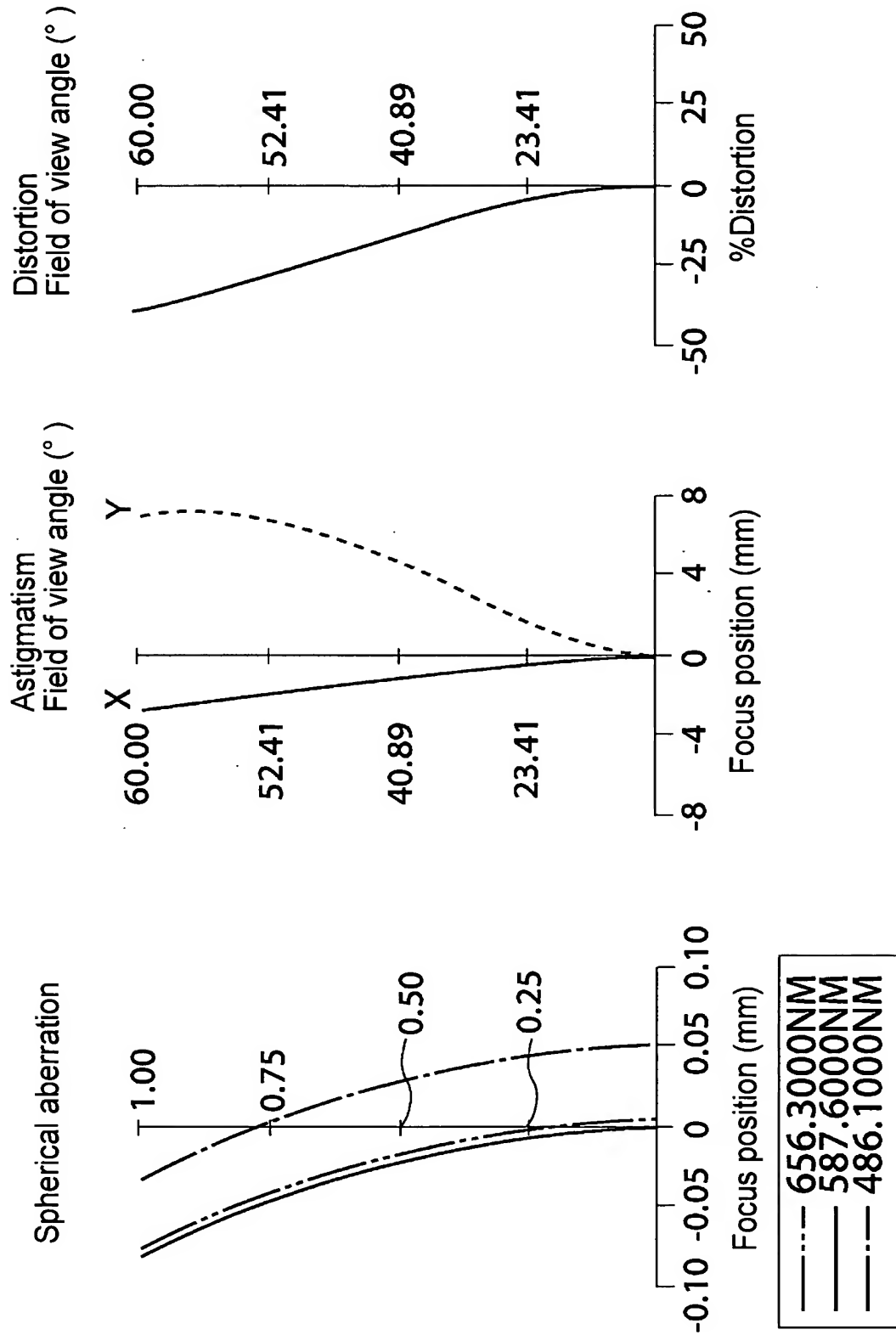


Fig. 8C

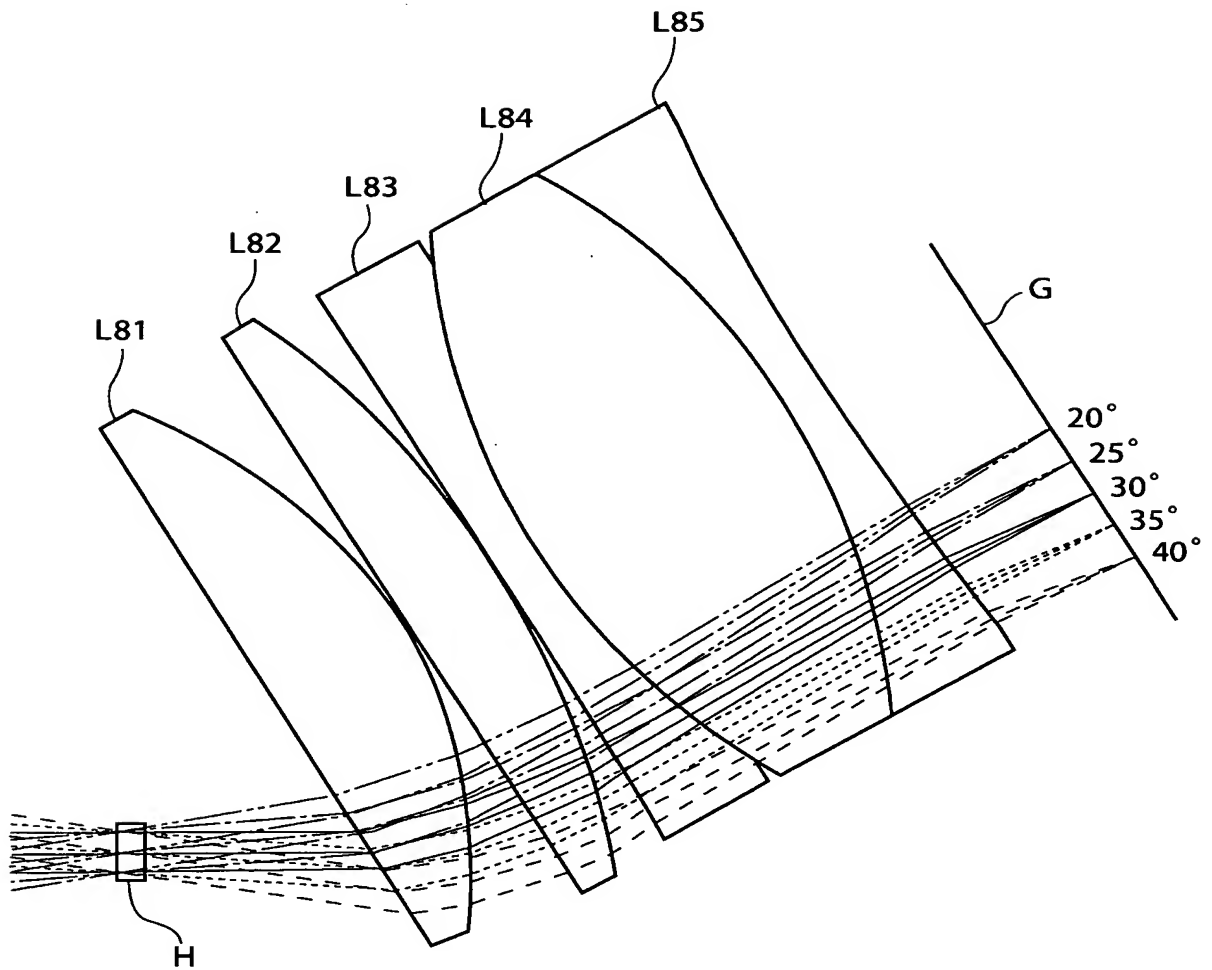


Fig. 8D

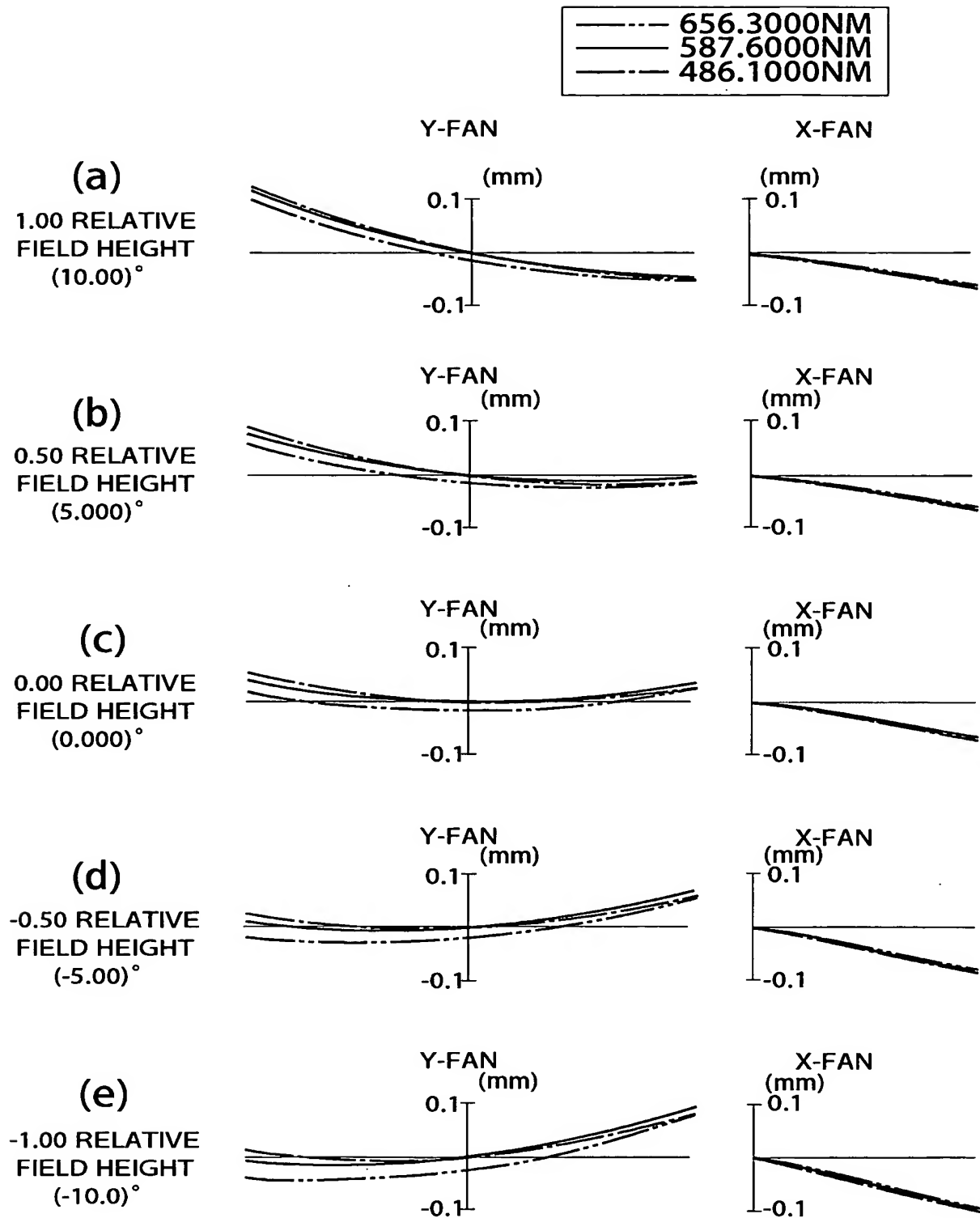


Fig. 8E

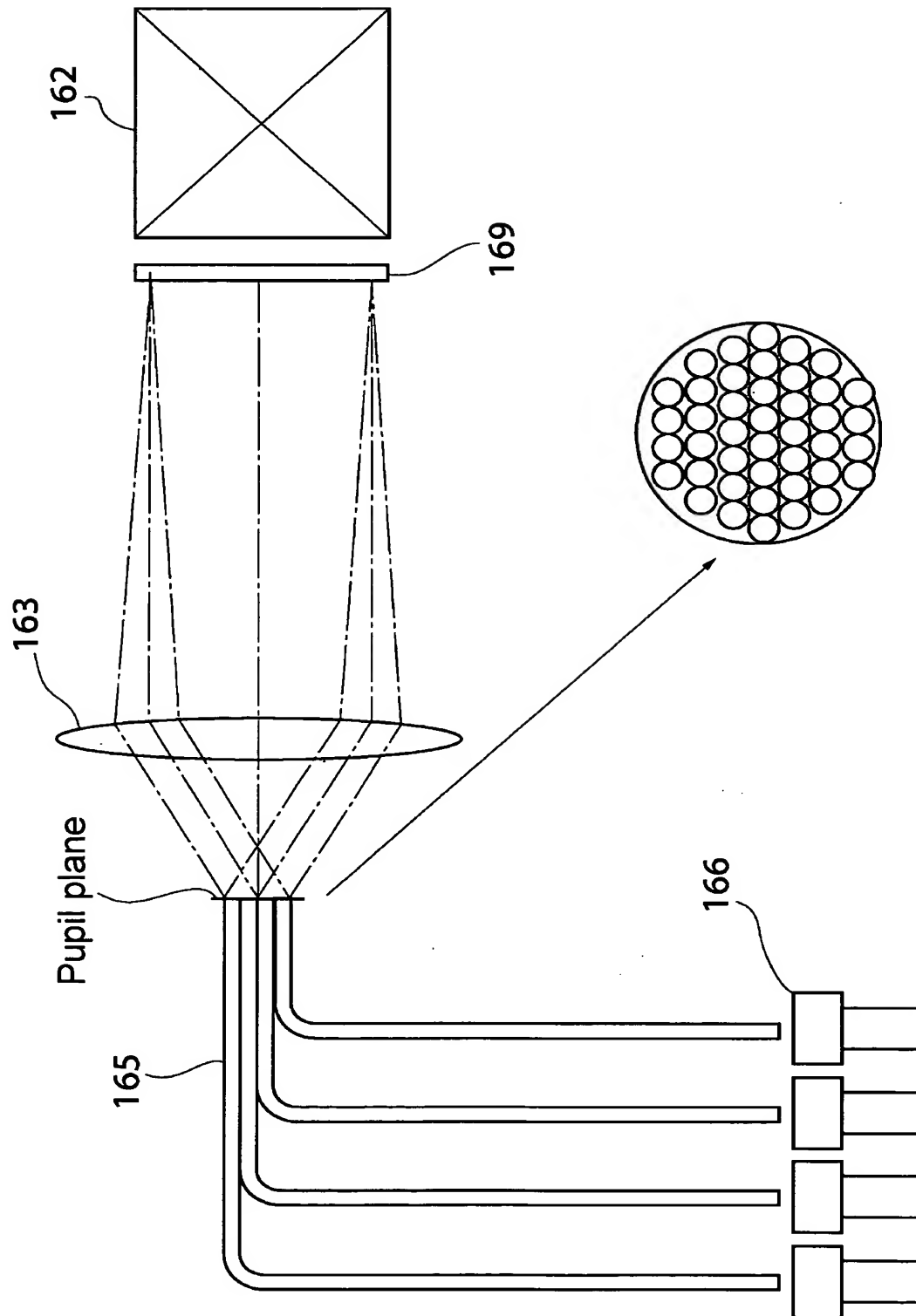


Fig. 8F

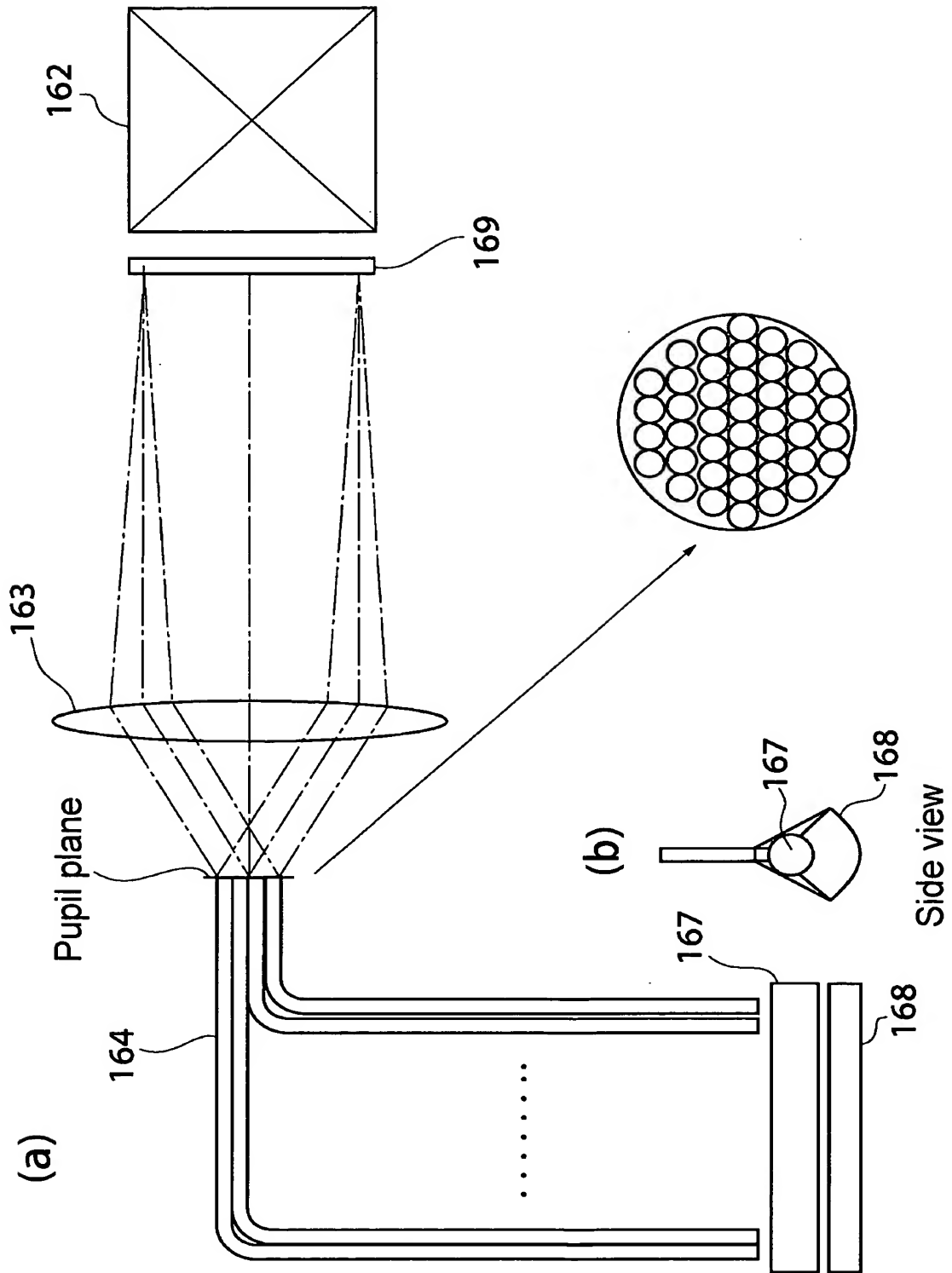


Fig. 9A

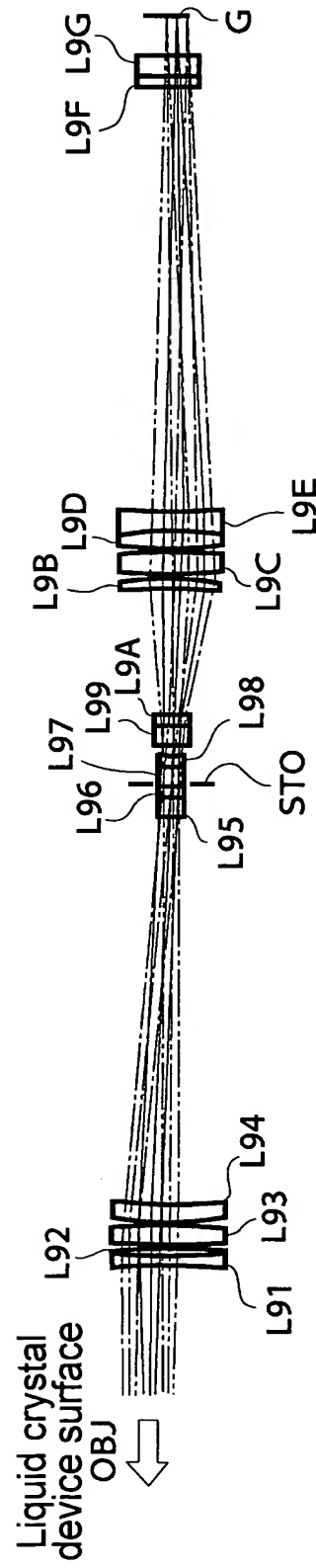


Fig. 9B

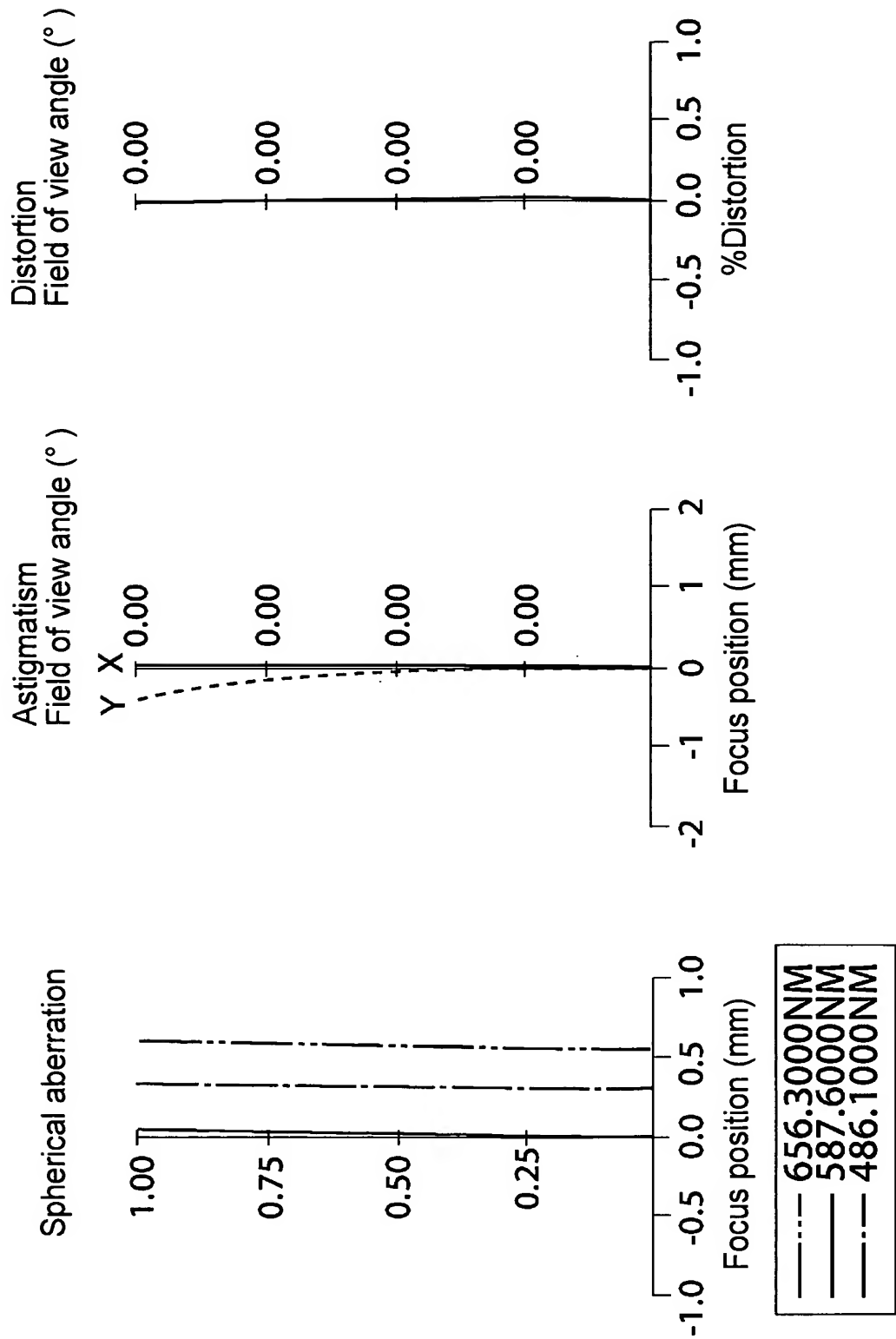


Fig. 9C

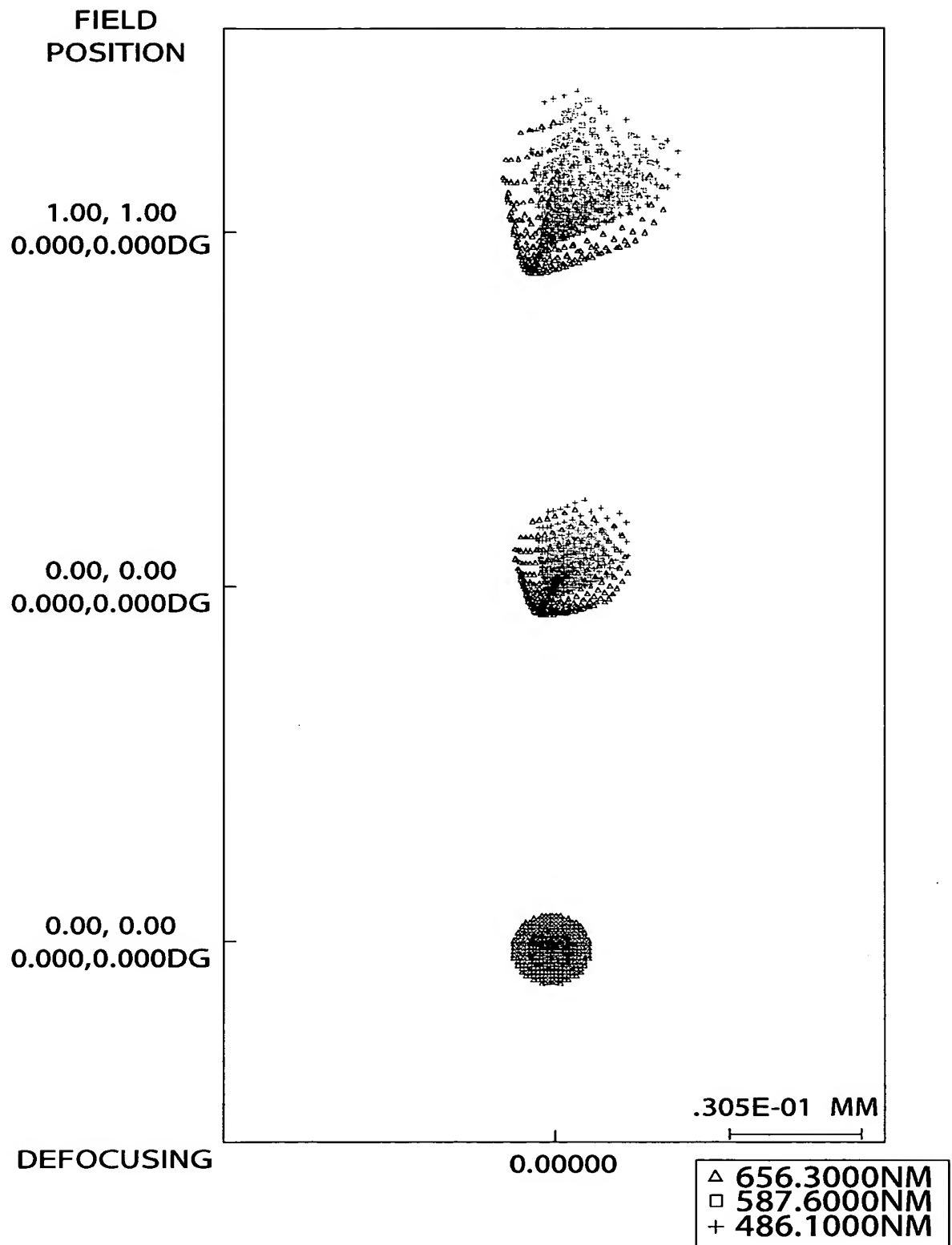


Fig. 9D

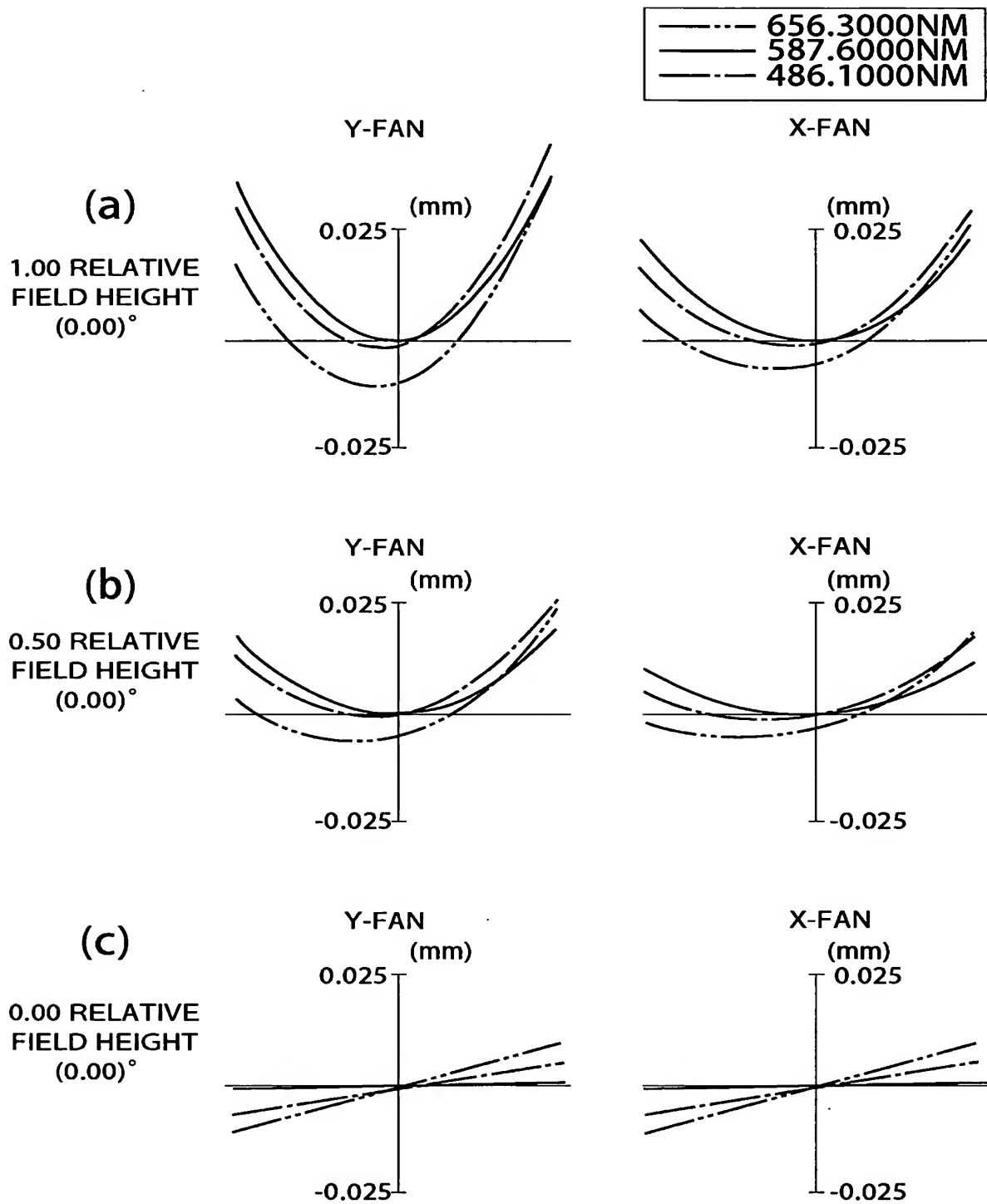


Fig. 10A

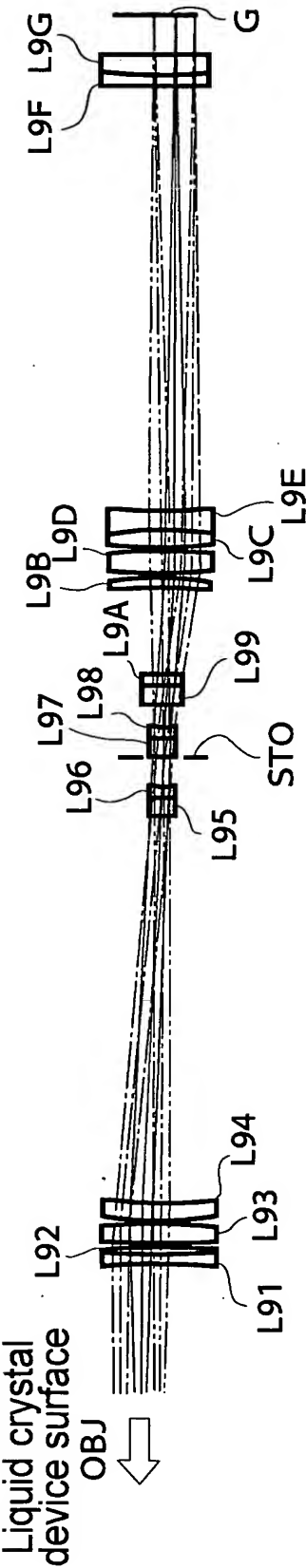


Fig. 10B

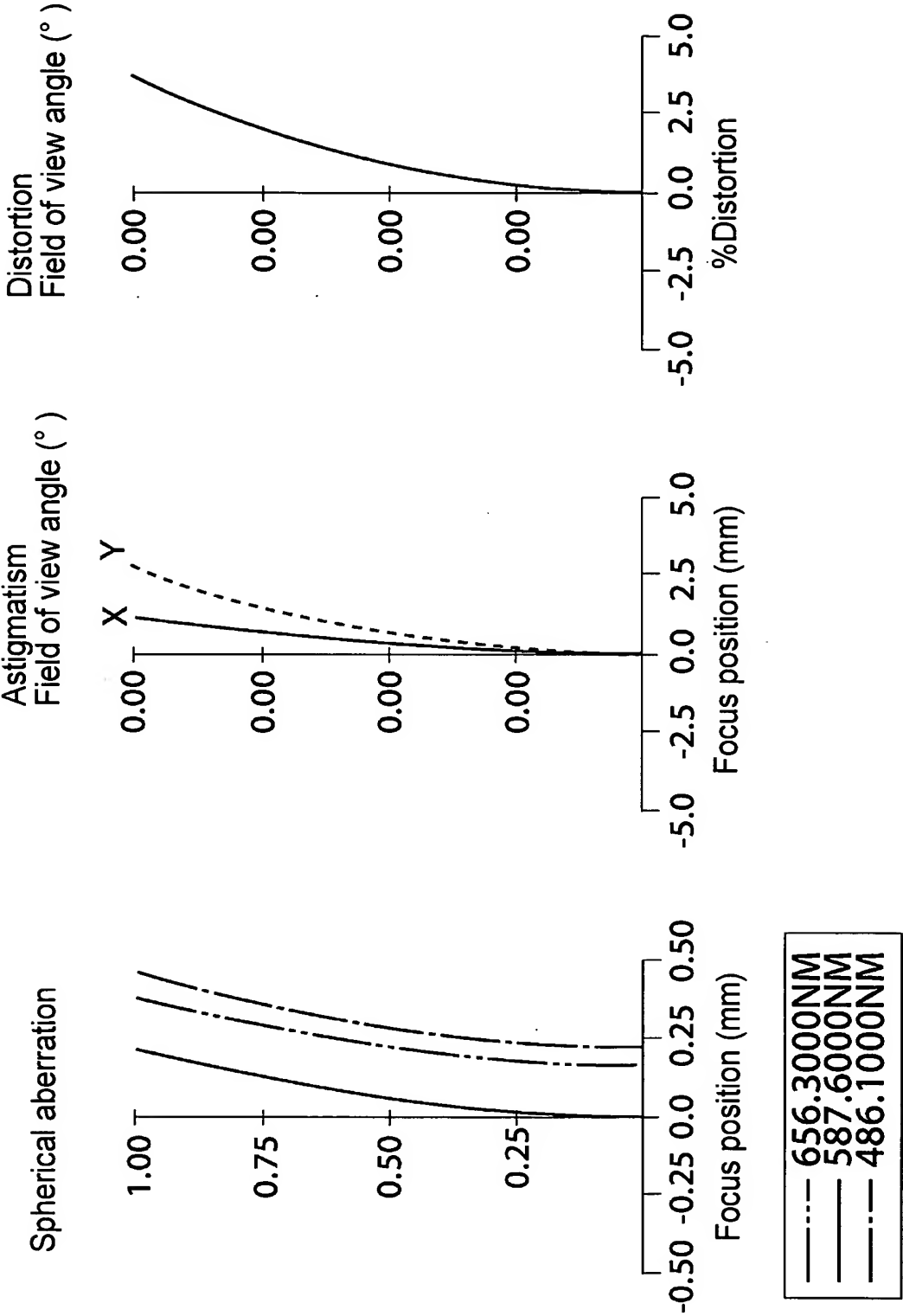


Fig. 10C

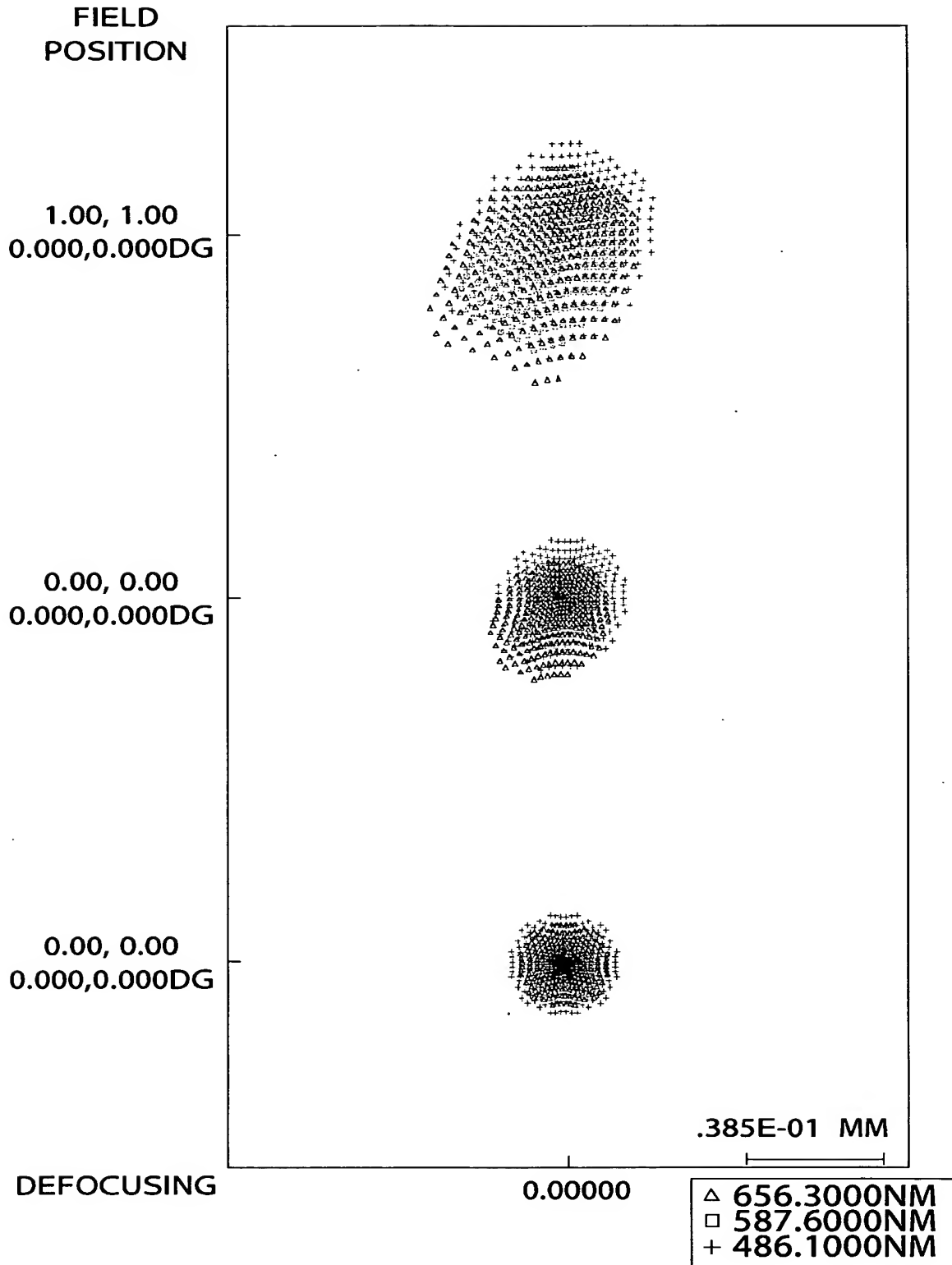


Fig. 10D

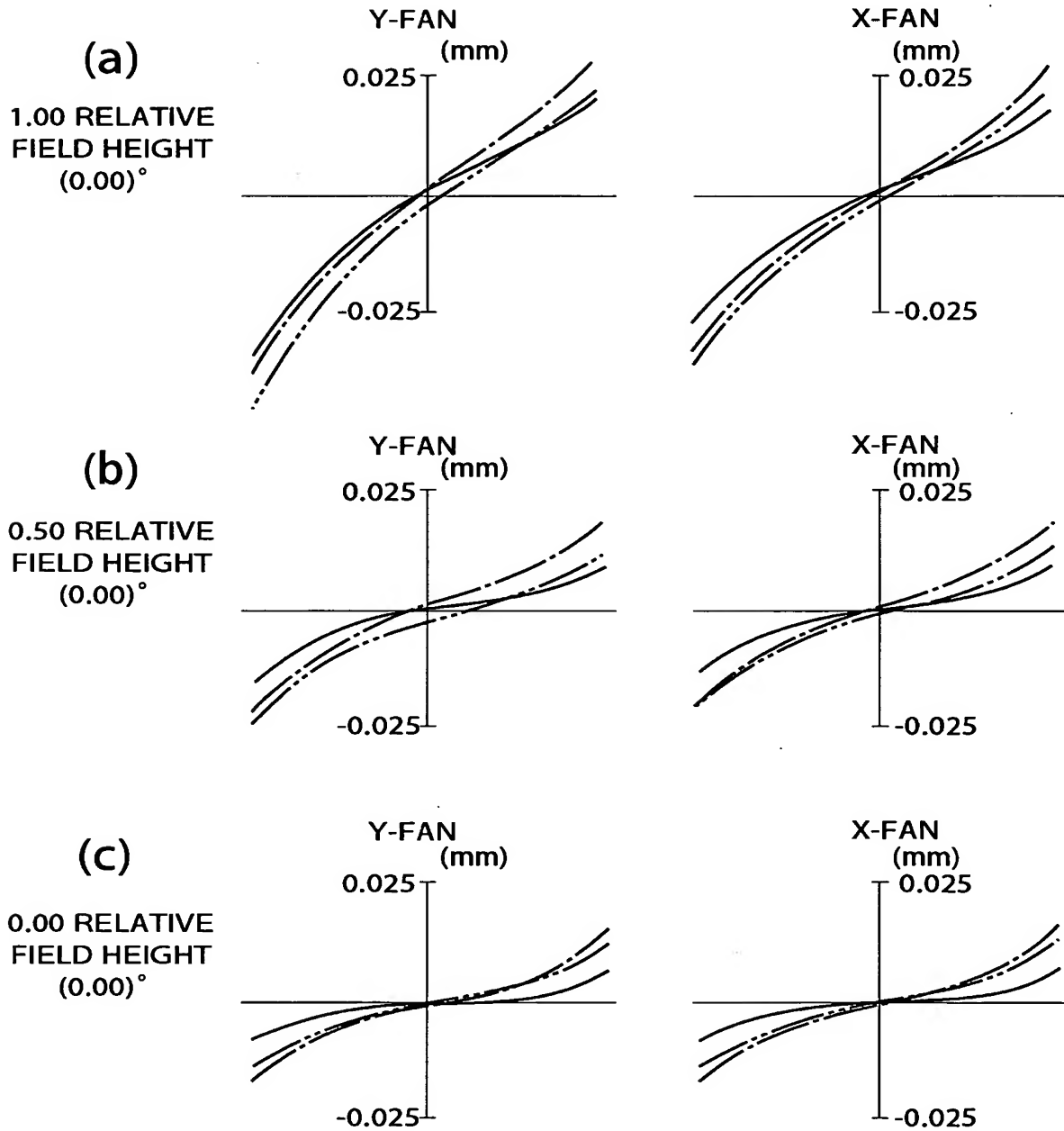


Fig. 11A

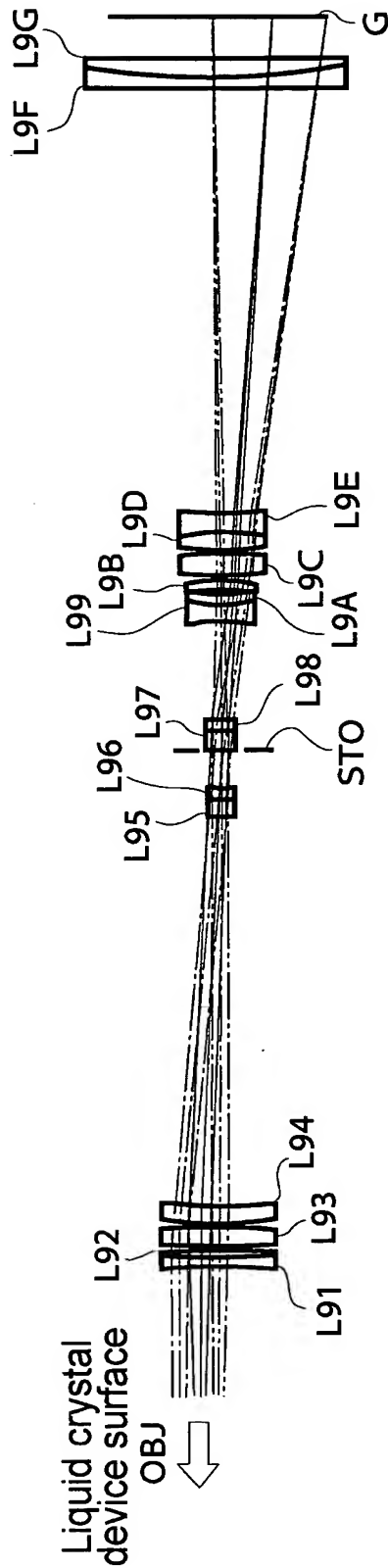


Fig. 11B

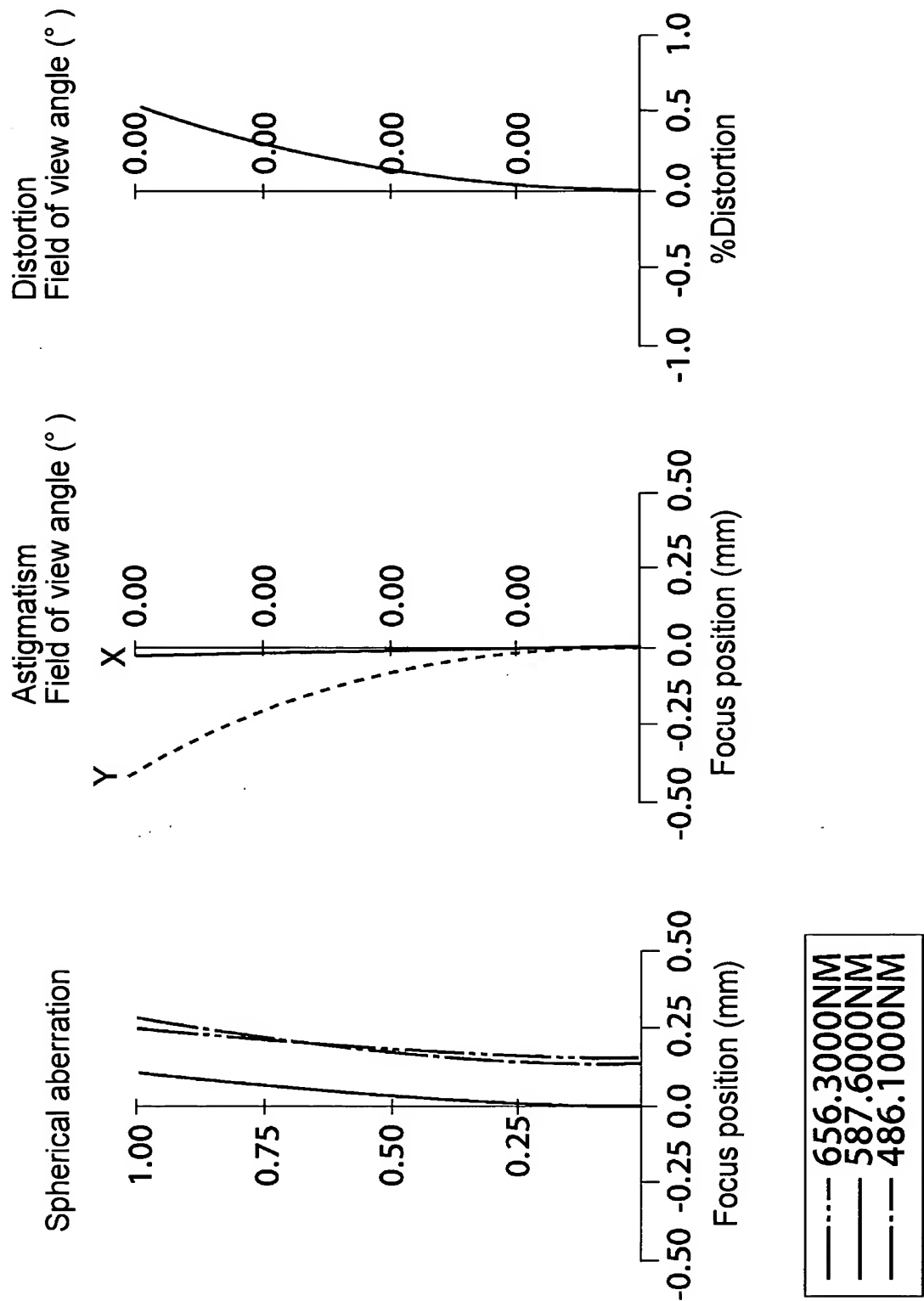


Fig. 11C

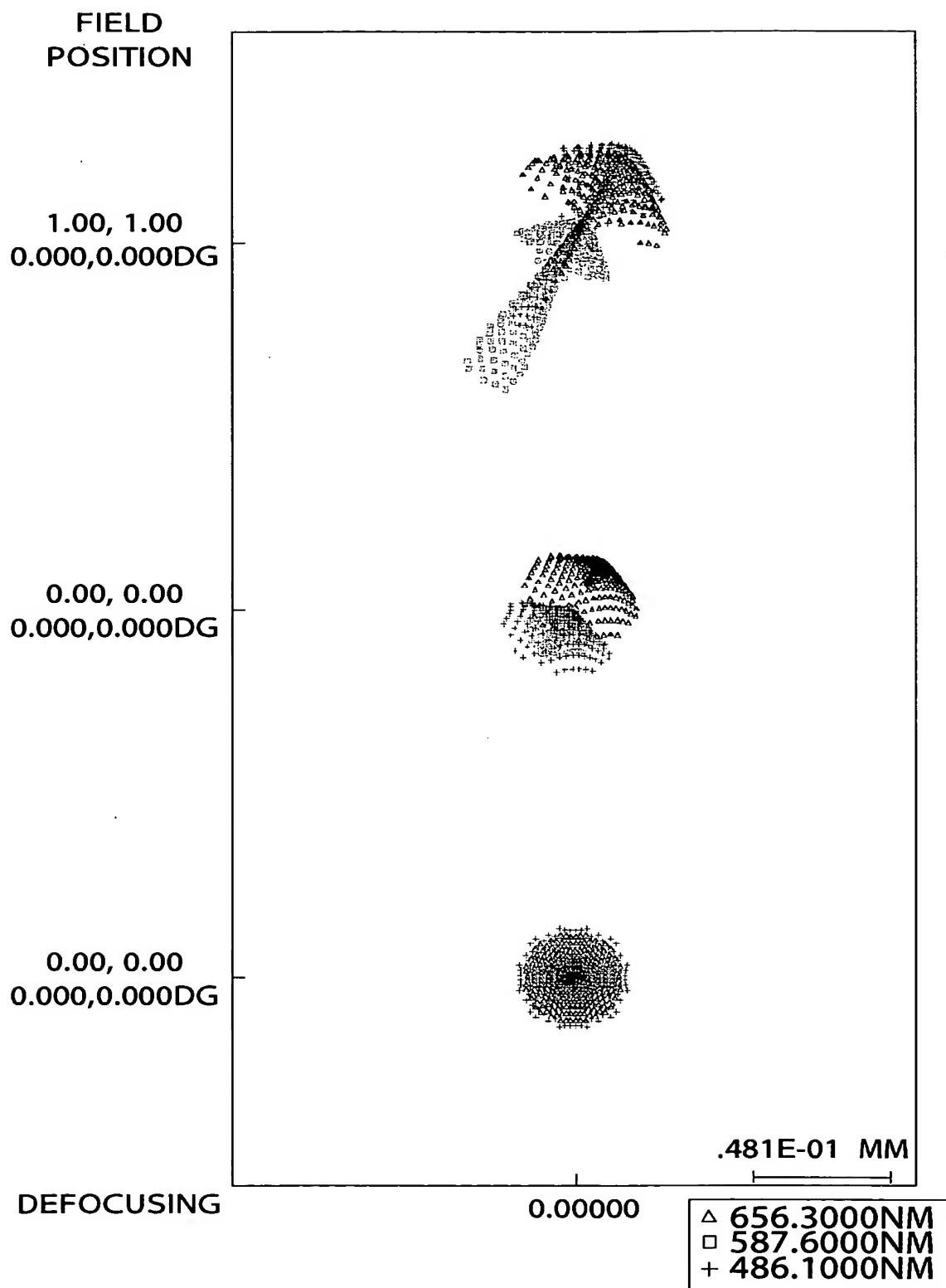


Fig. 11D

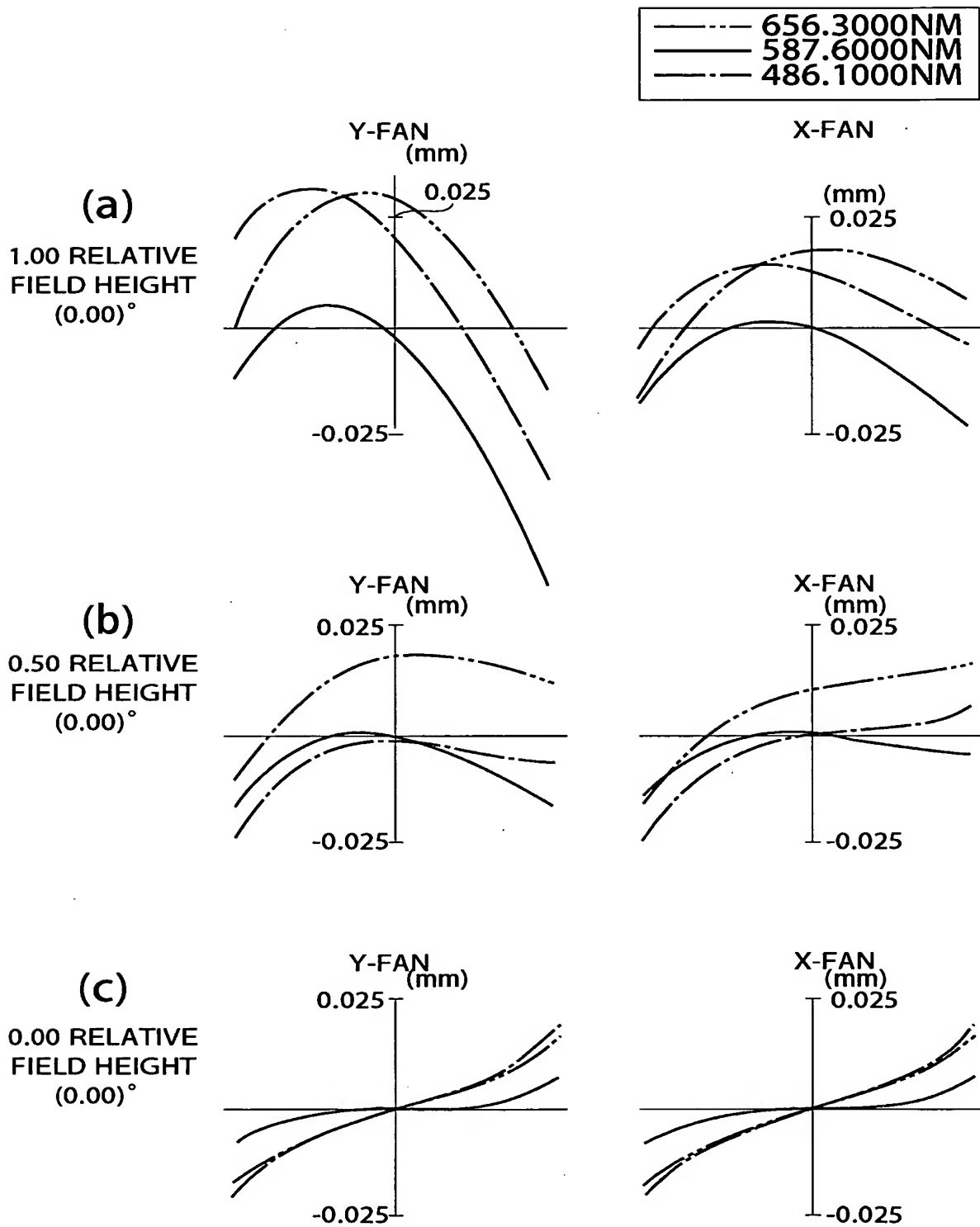


Fig. 12A

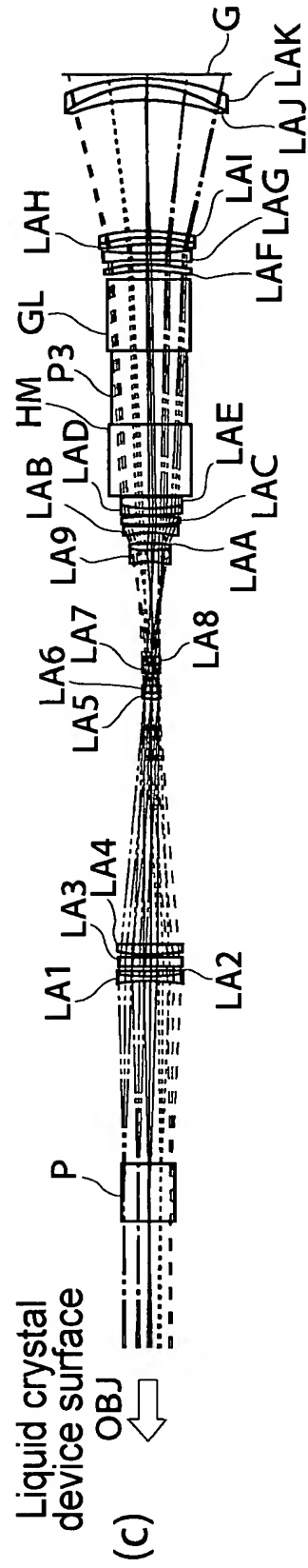
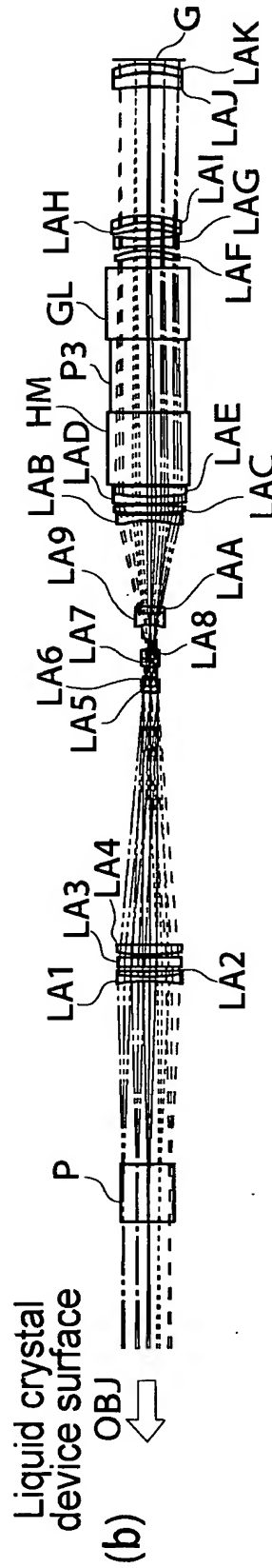
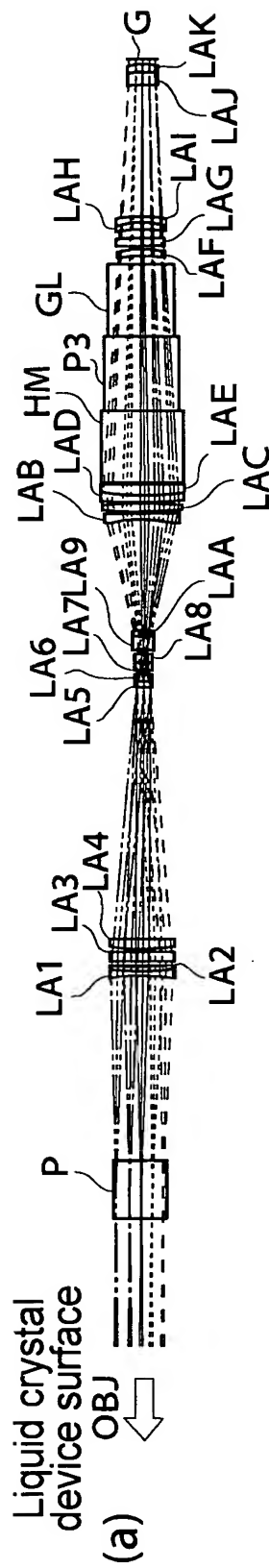


Fig. 12B

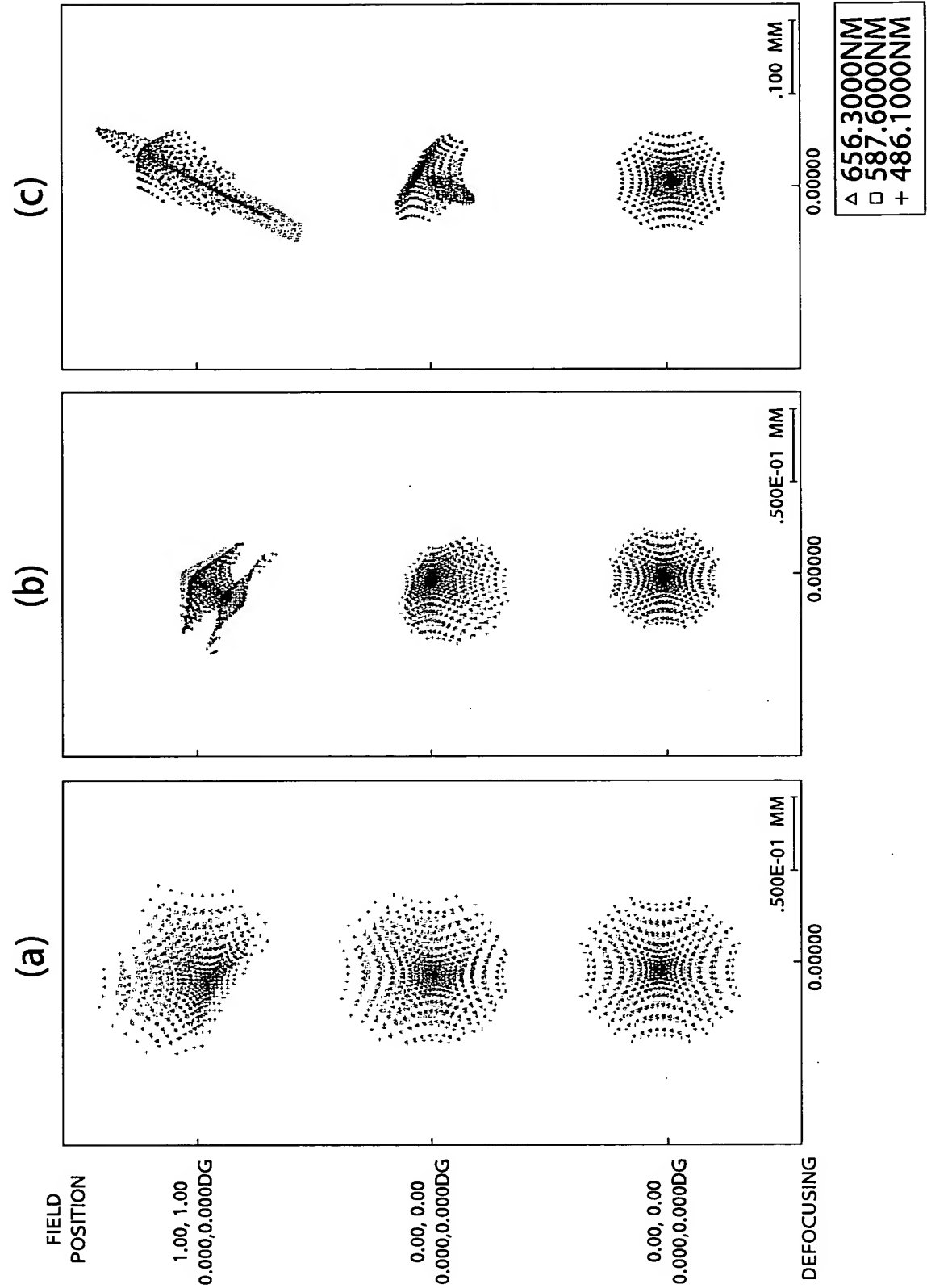


Fig. 12C

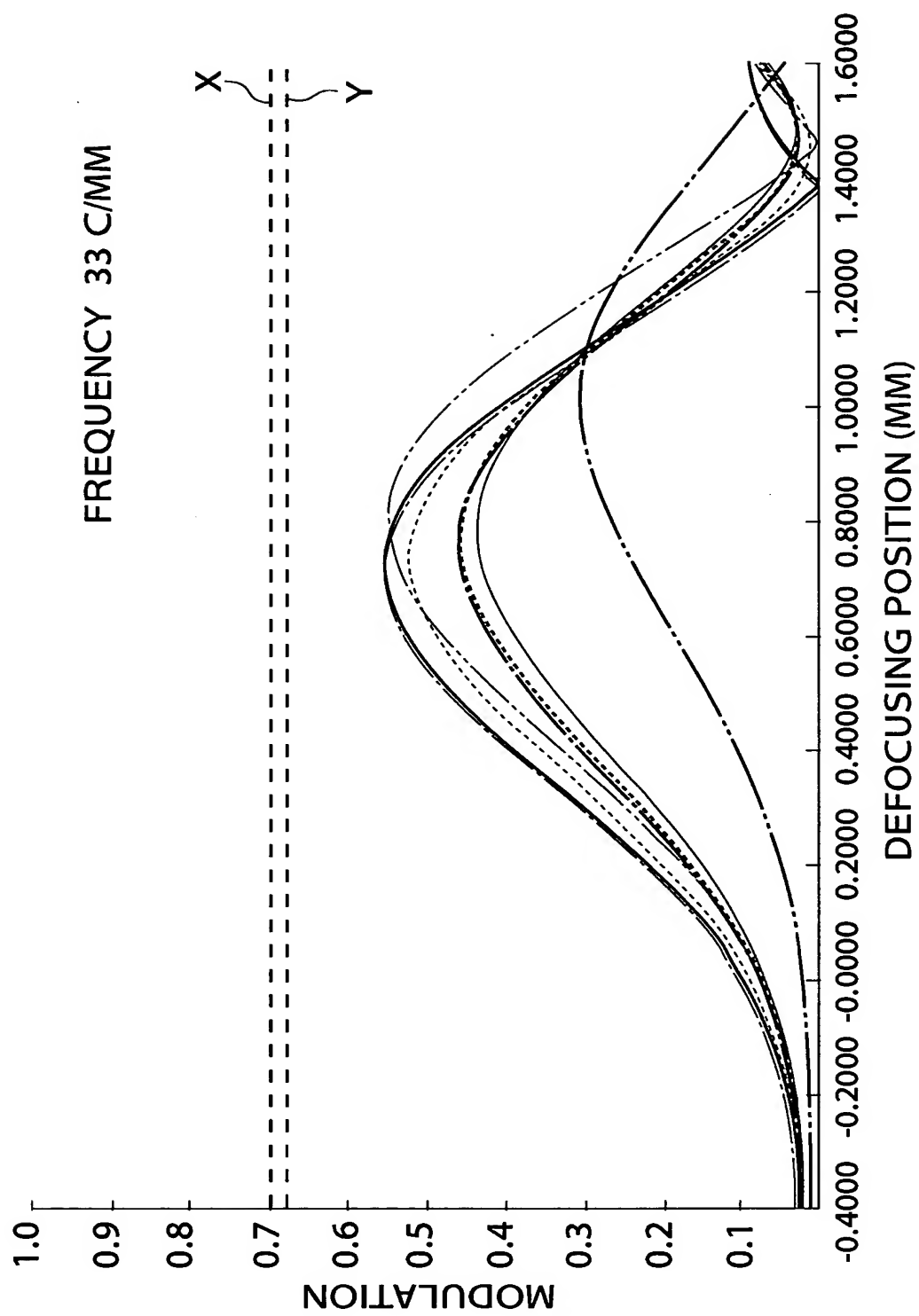


Fig. 12D

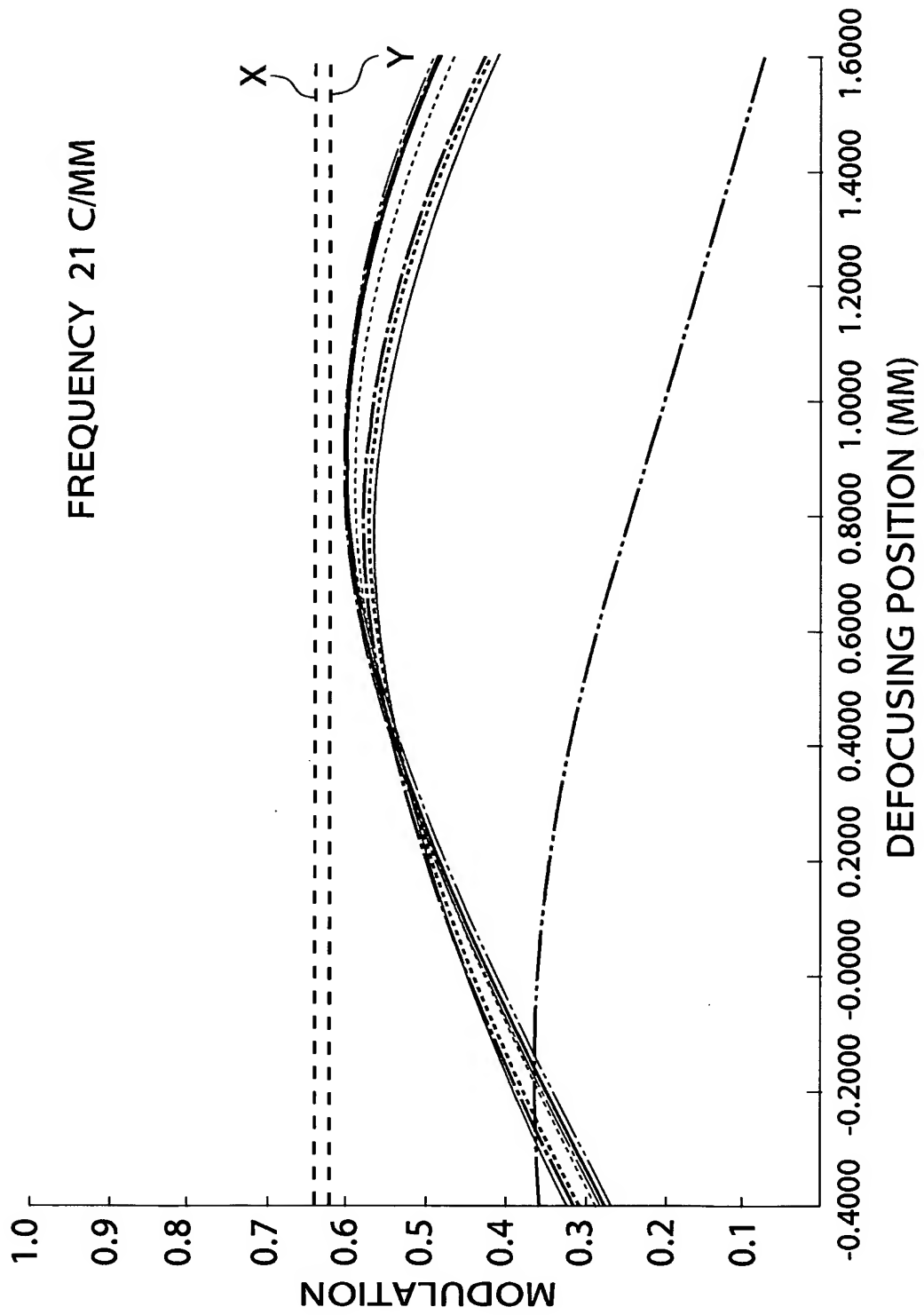


Fig. 12E

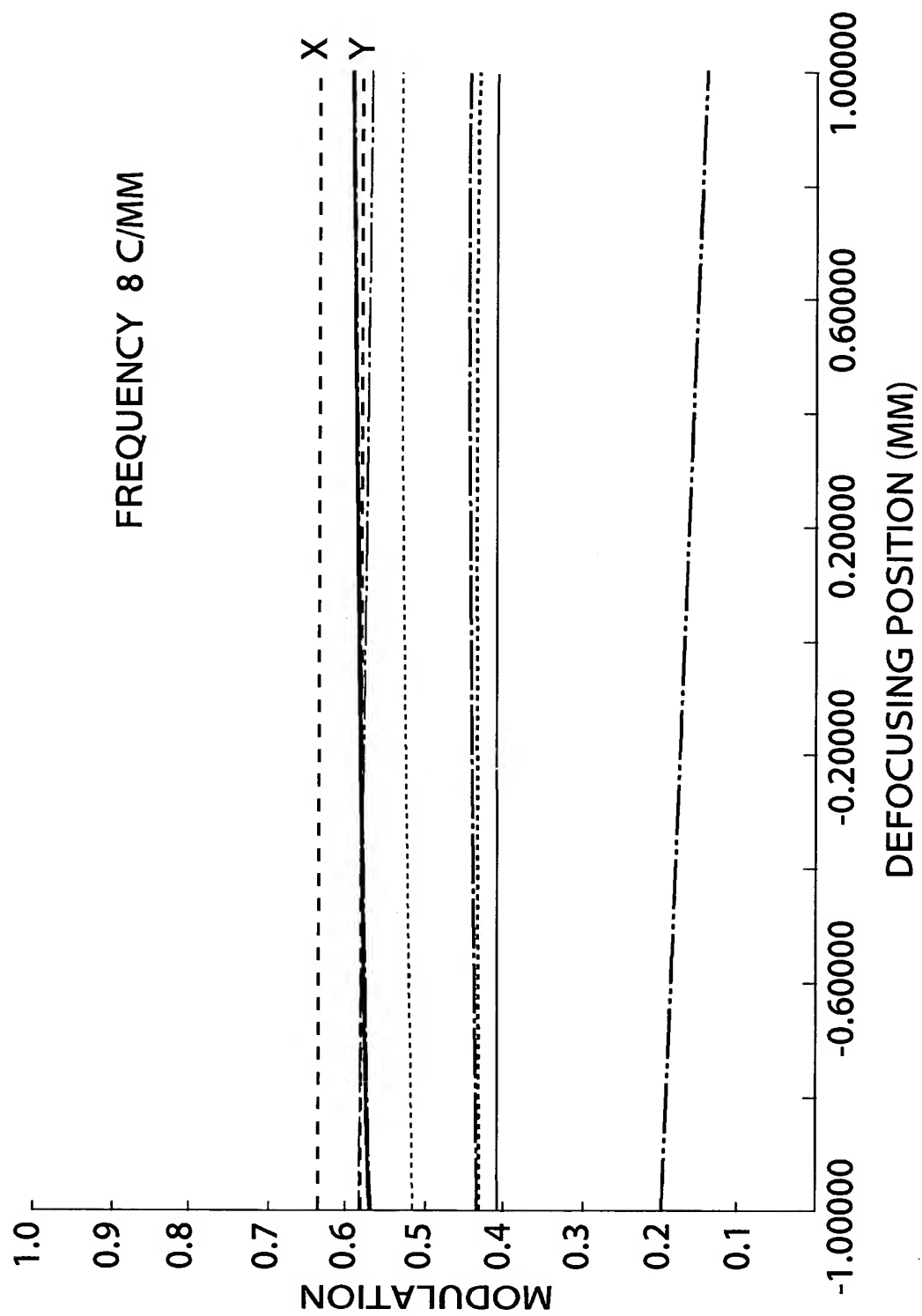


Fig. 12F

na=0.0025

Zoom system	Unit	Condition 1	Condition 2	Condition 3	Condition 4	Condition 5	Condition 6	Condition 7	Condition 8	Condition 9	Condition 10	Condition 11	Condition 12	Condition 13
S28	mm	1	2.17	3.47	4.22	4.72	5.06	5.3	5.57	5.66	5.64	5.527	5.362	5.108
S31	mm	1	2	4	6	8	10	12	16	20	25	30	35	41.5
S34	mm	50	47.83	44.53	41.78	39.28	36.94	34.7	30.43	26.34	21.36	16.473	11.638	5.392
Image side approximate AF plane	mm	2.2073	2.2236	2.2151	2.2963	2.2947	2.3236	2.2535	2.1447	2.2917	2.2077	2.2104	2.2566	2.1962
Screen projection image/2	mm	6.19	6.98	8.24	9.36	10.45	11.52	12.60	14.83	17.17	20.25	23.56	27.13	32.197
Chip frequency/eyesight	Times	0.87	0.98	1.16	1.32	1.47	1.62	1.78	2.09	2.42	2.85	3.32	3.82	4.53
Evaluation frequency	Hz	34.13	34.13	29.42	25.89	23.20	21.04	19.23	16.34	14.12	11.97	10.29	8.93	7.53
Field of view angle (one-side)	Degree	18.50	20.67	24.01	26.85	29.46	31.92	34.28	38.74	42.87	47.60	51.87	55.72	60.13
MTF0	%	36.5%	37.7%	52.0%	55.2%	54.0%	54.5%	53.3%	54.4%	51.0%	51.4%	46.0%	47.7%	44.0%
MTF0.5	%	36.4%	38.4%	53.4%	56.2%	54.5%	55.1%	53.6%	54.2%	52.4%	54.5%	49.1%	50.8%	44.2%
MTF1	%	31.5%	30.9%	37.9%	42.2%	40.1%	31.1%	27.7%	21.3%	19.0%	17.9%	25.2%	26.9%	16.9%
Best focus	mm	1	1	0.8	0.6	0.4	0.4	0.2	0	-0.4	0.8	0	0.2	0

Fig. 12G

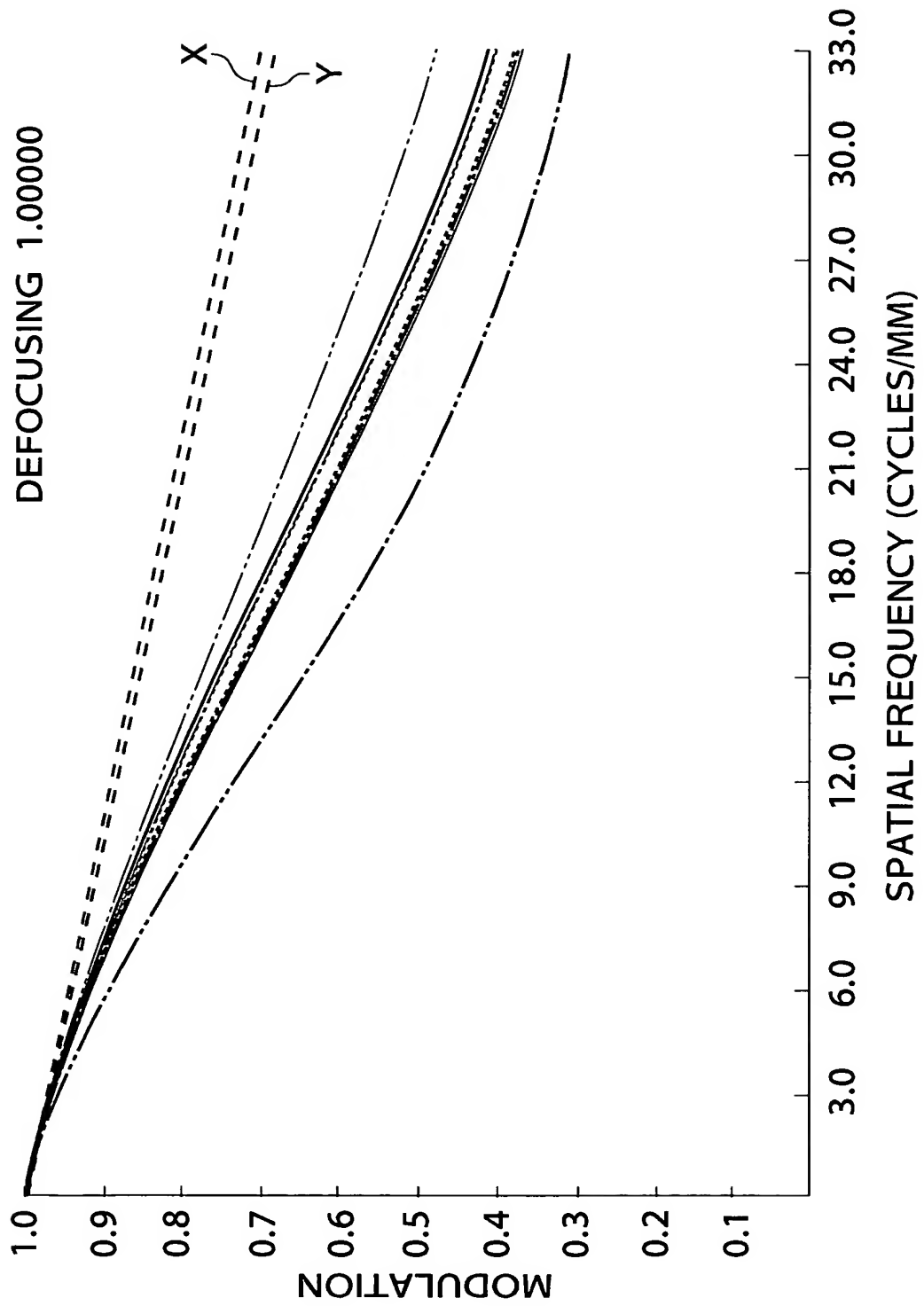


Fig. 12H

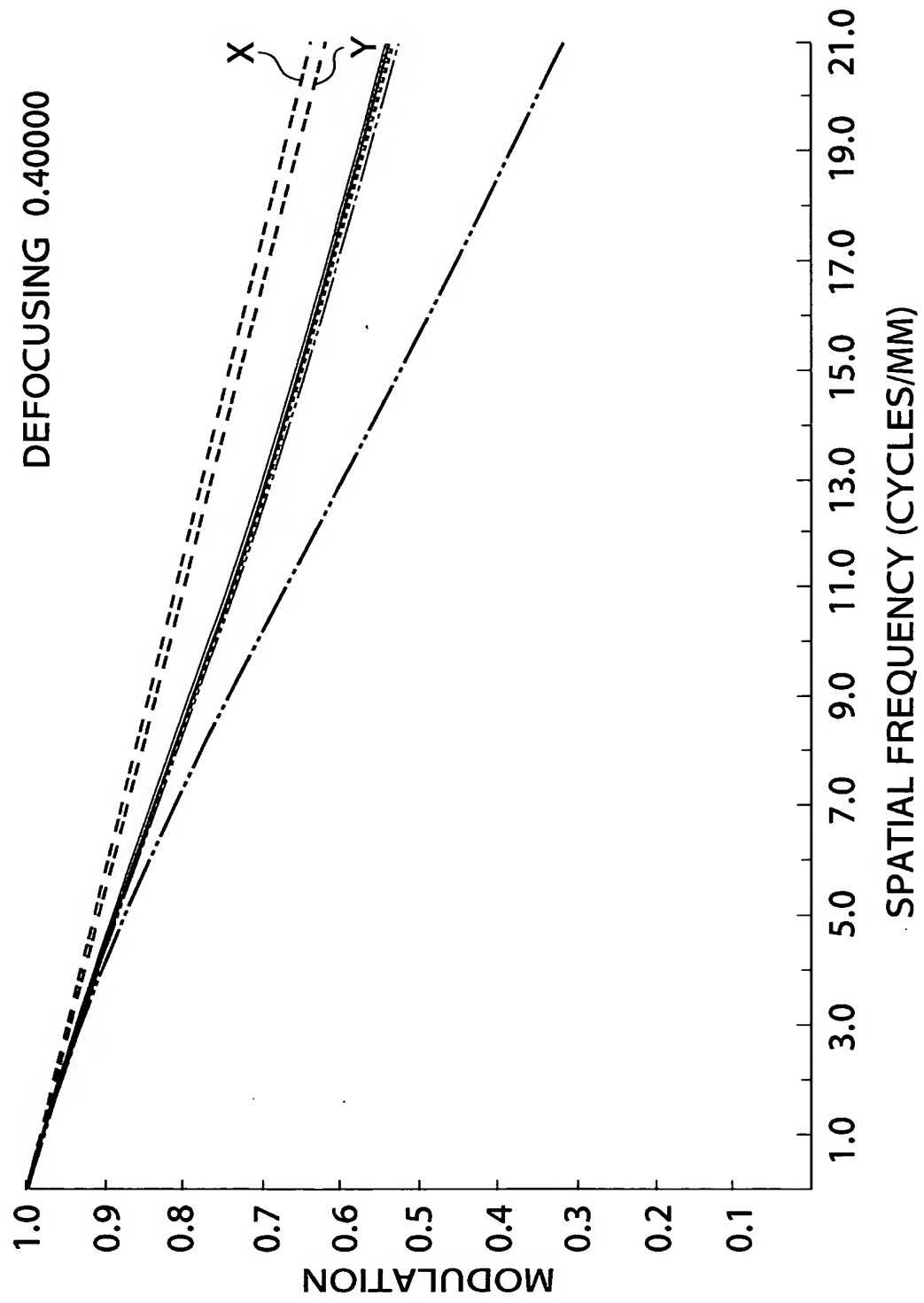


Fig. 13A

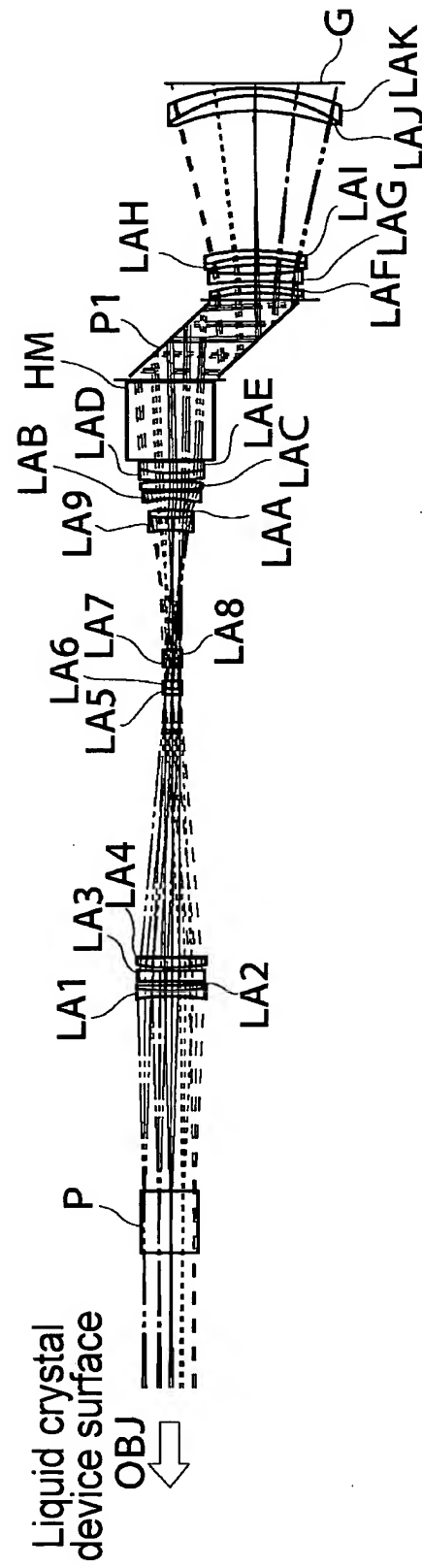


Fig. 13B

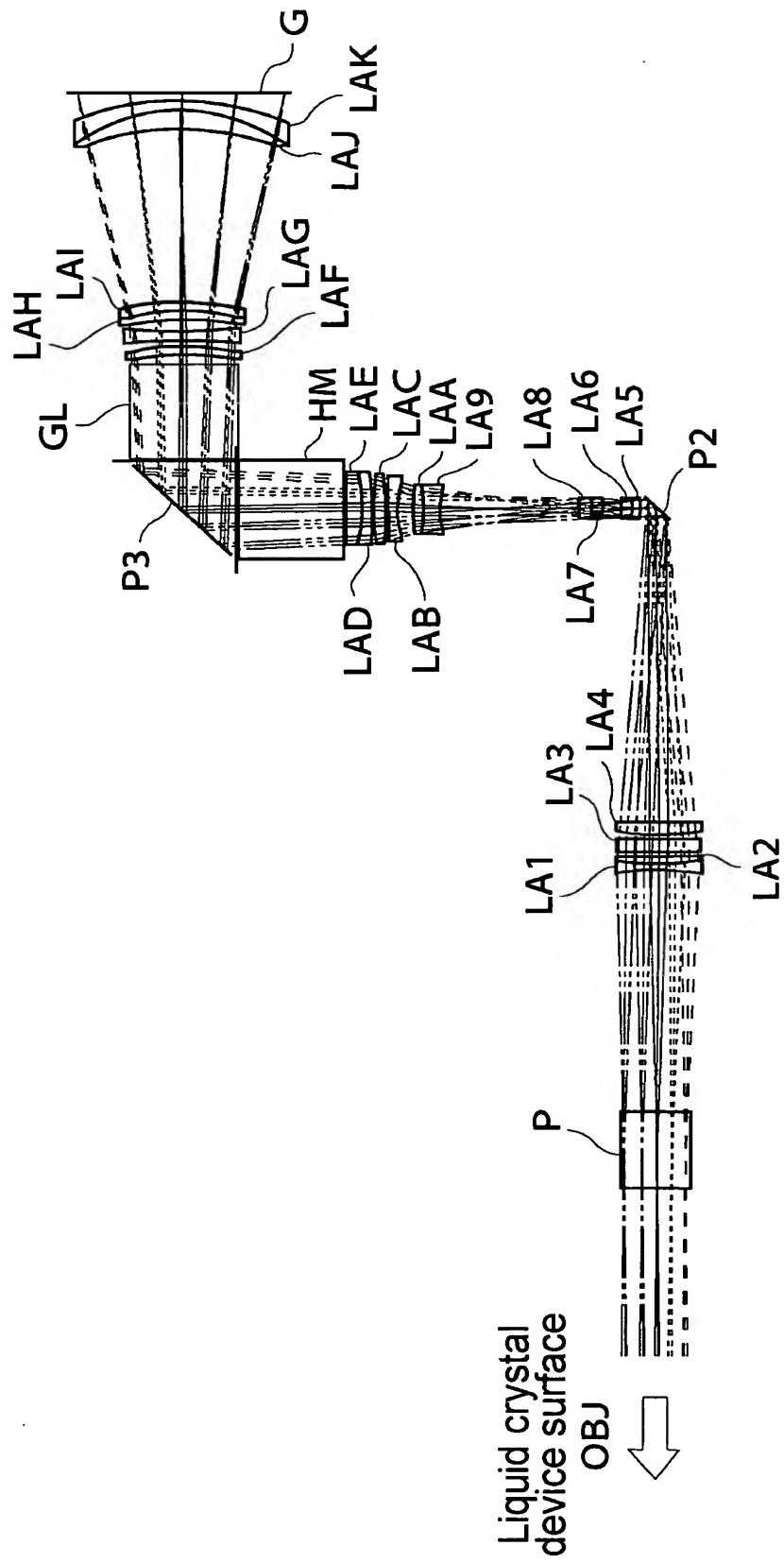


Fig. 13C

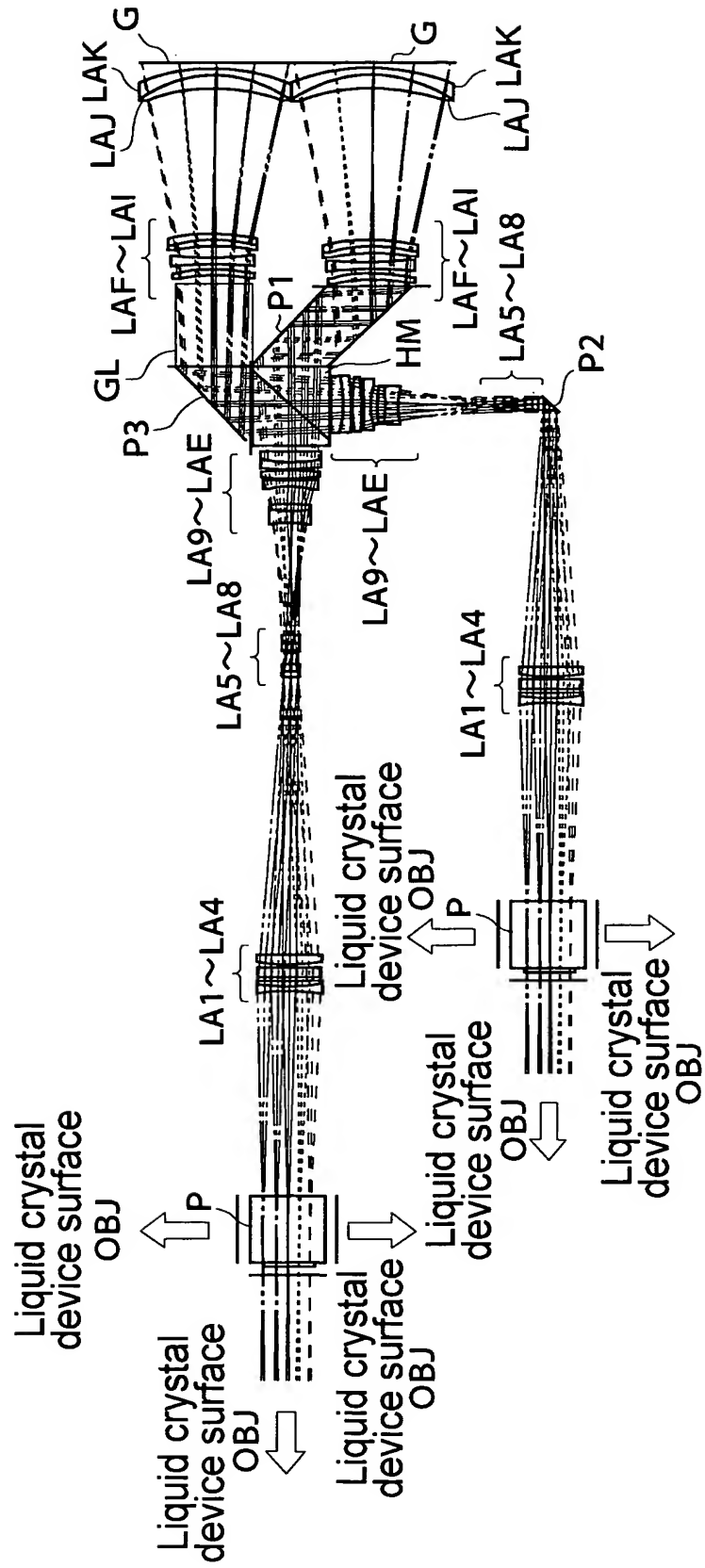


Fig. 13D

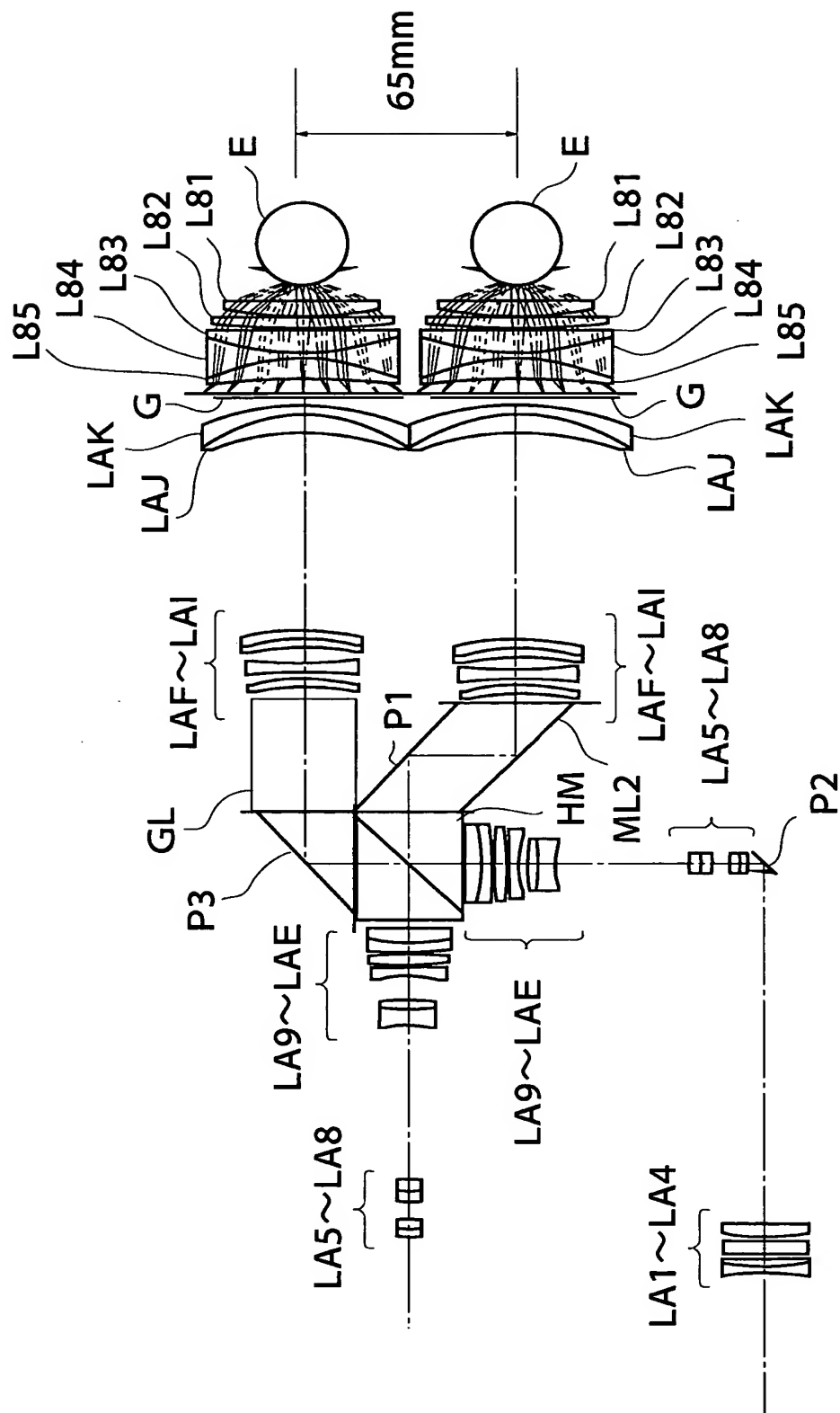


Fig. 13E

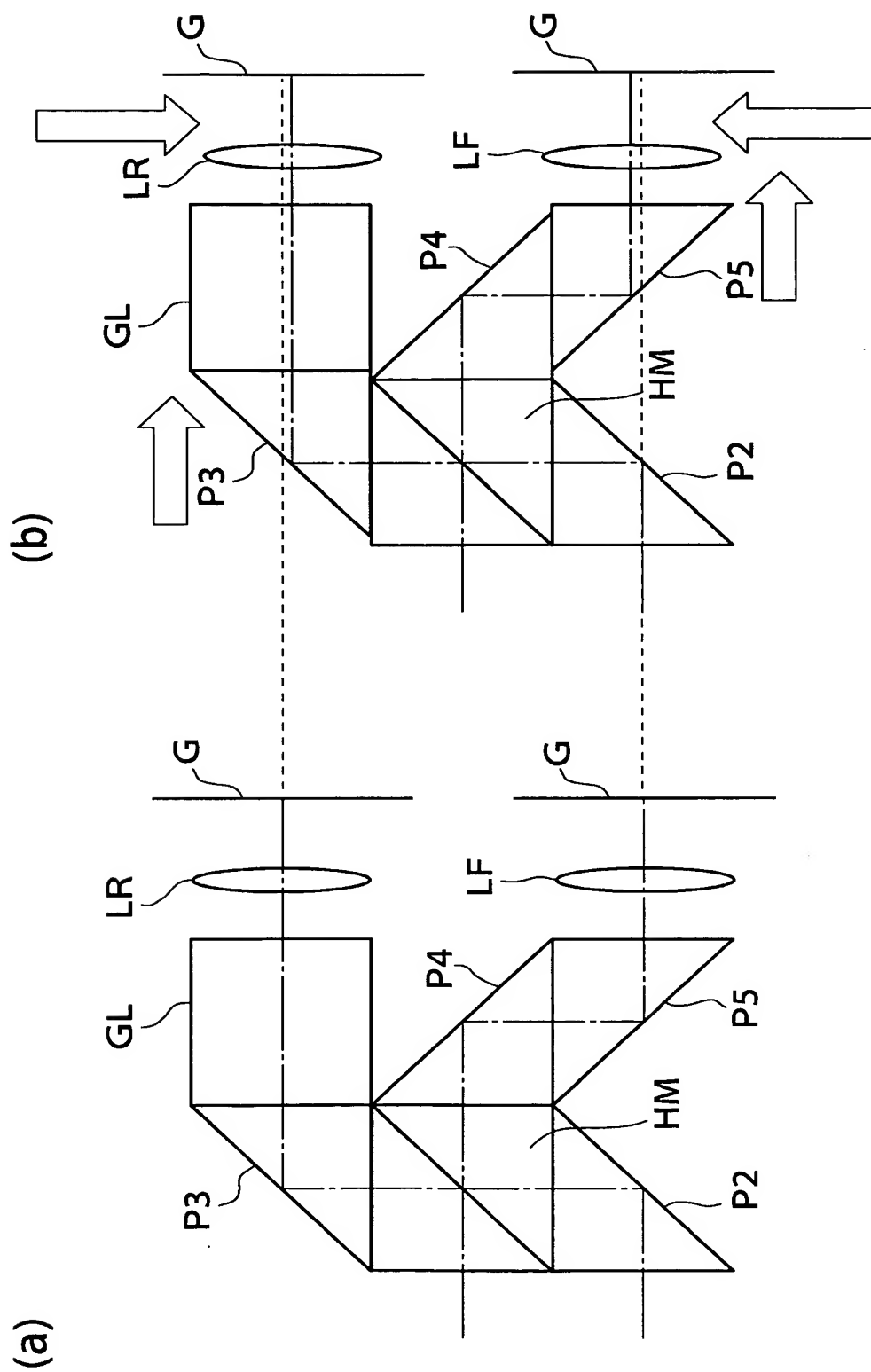


Fig. 14

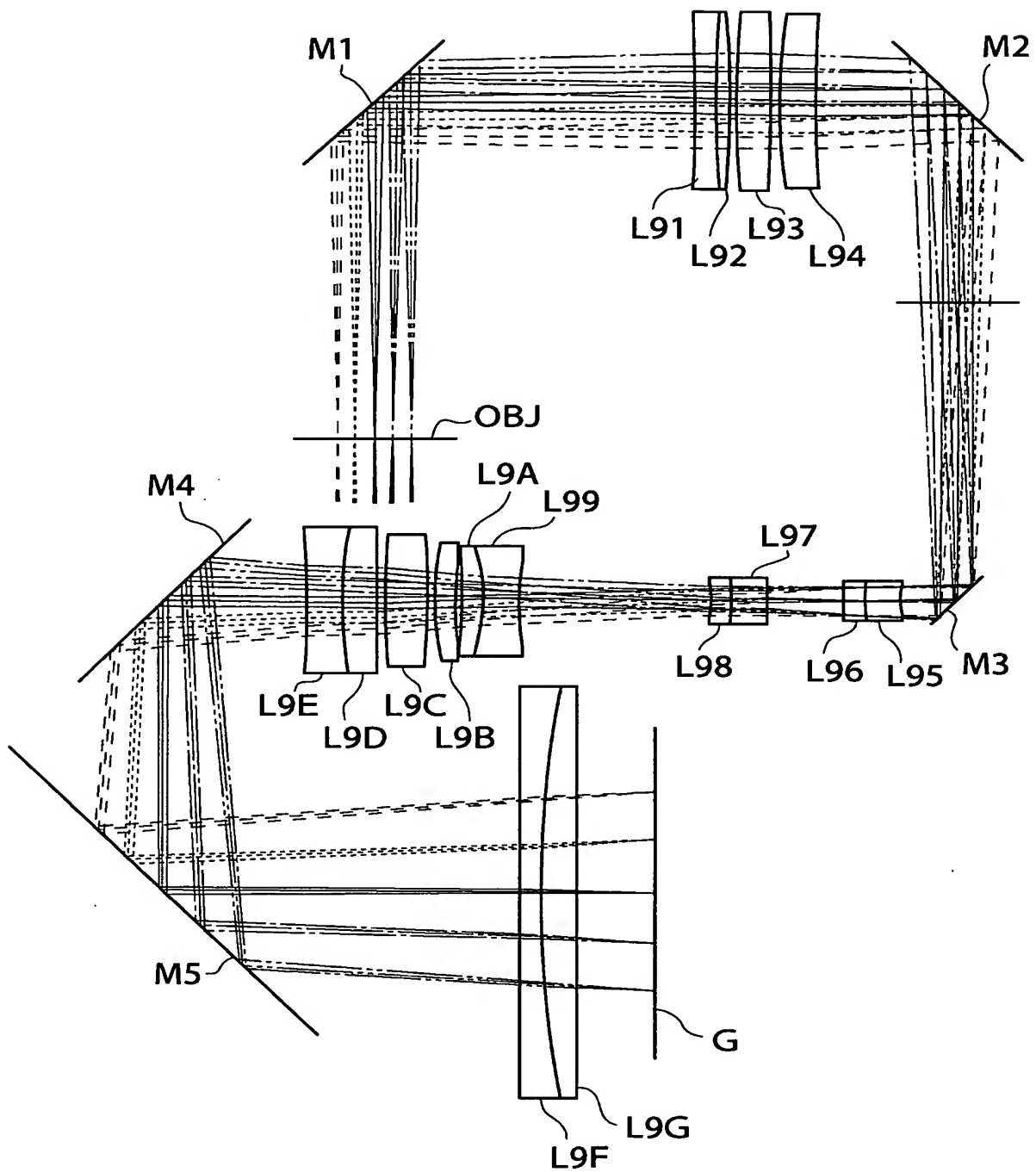


Fig. 15

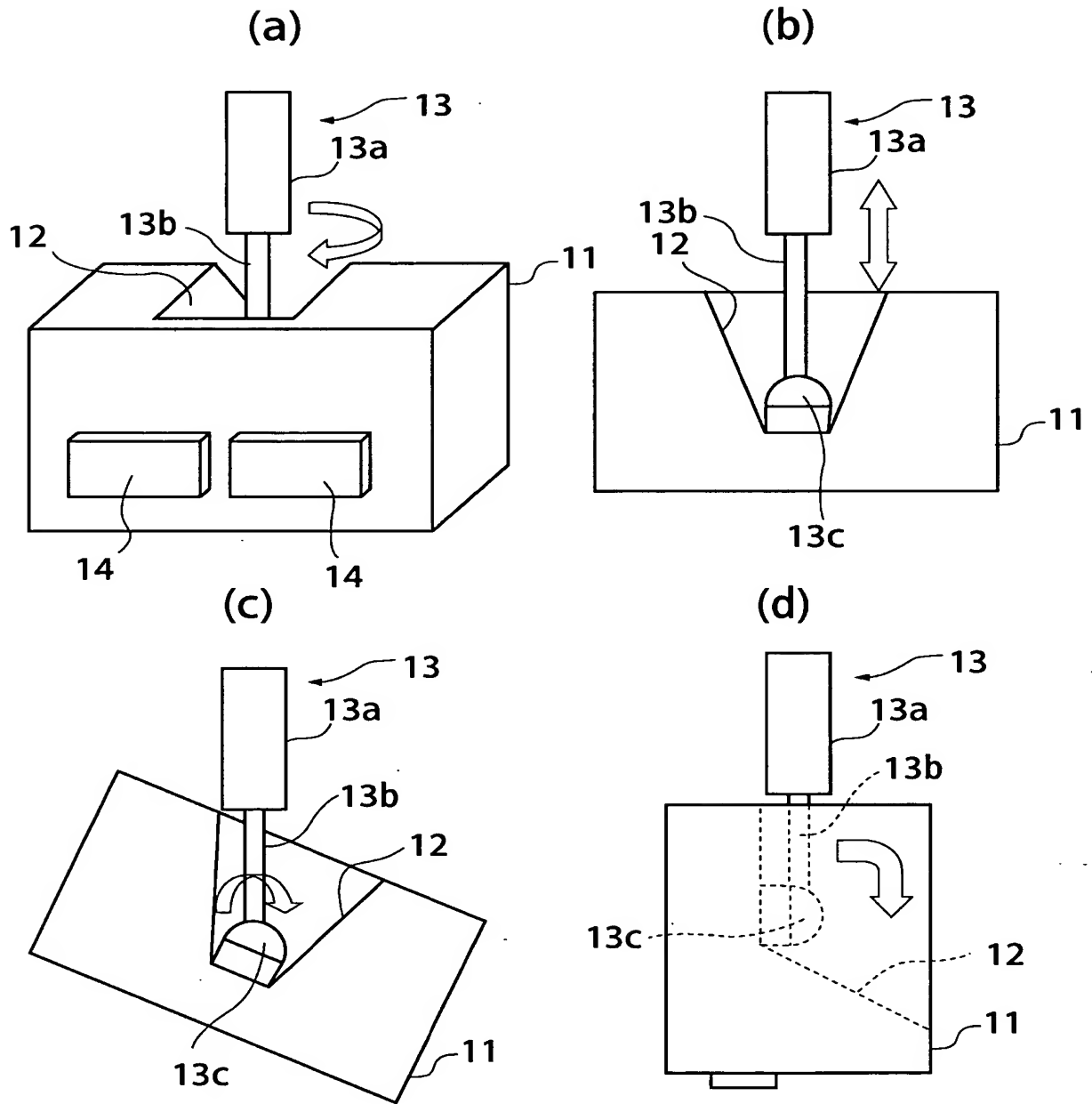


Fig. 16

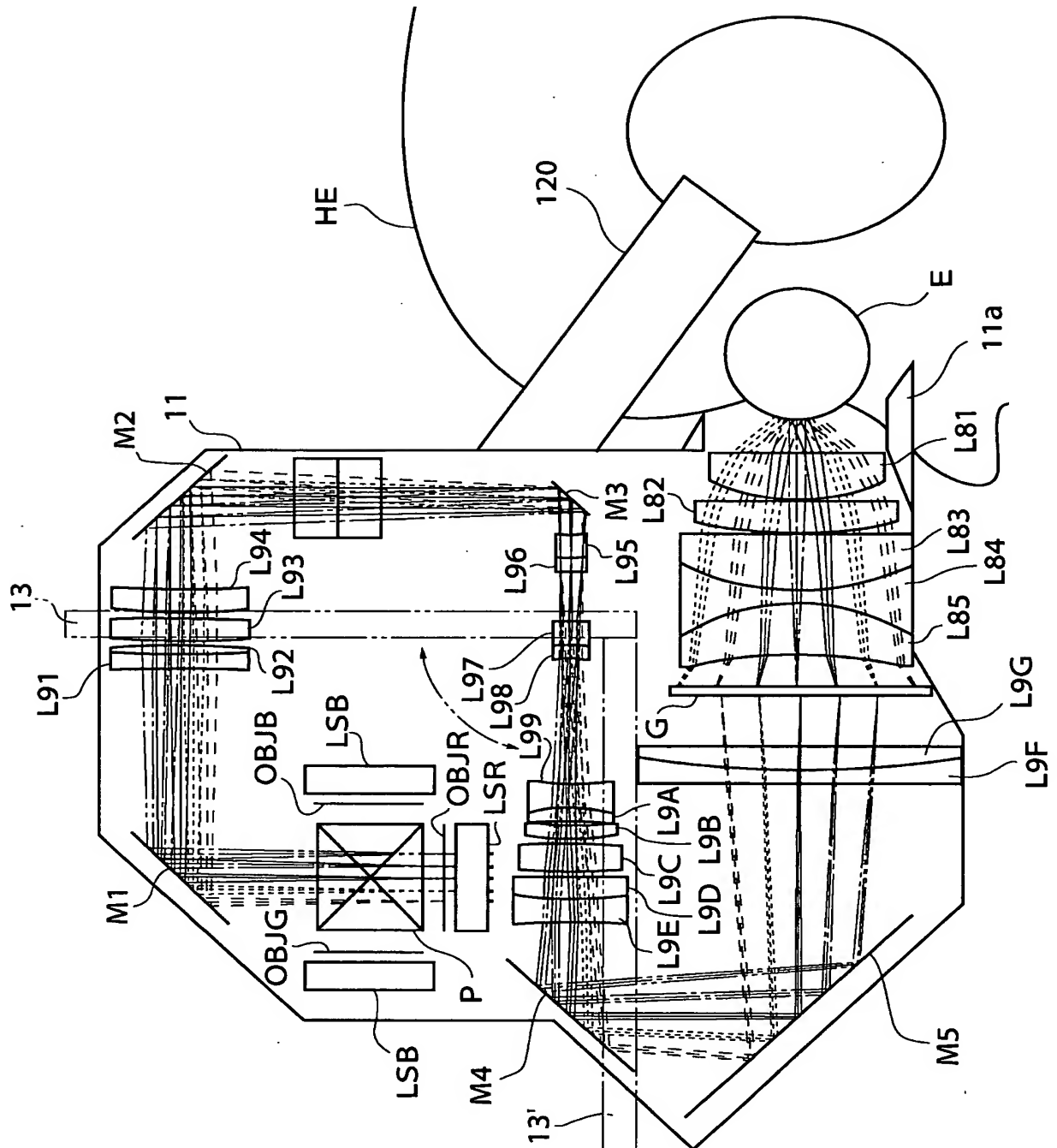


Fig. 17B

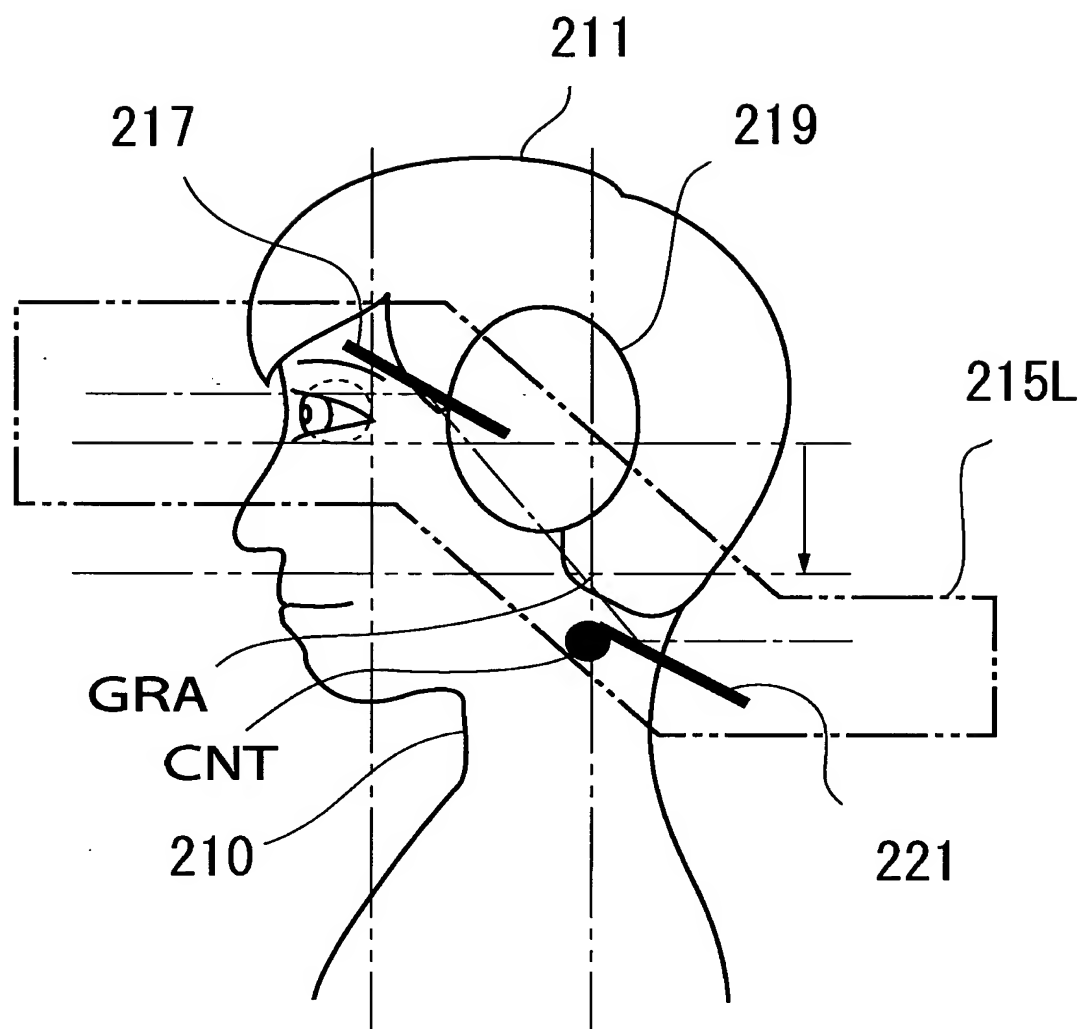


Fig. 18

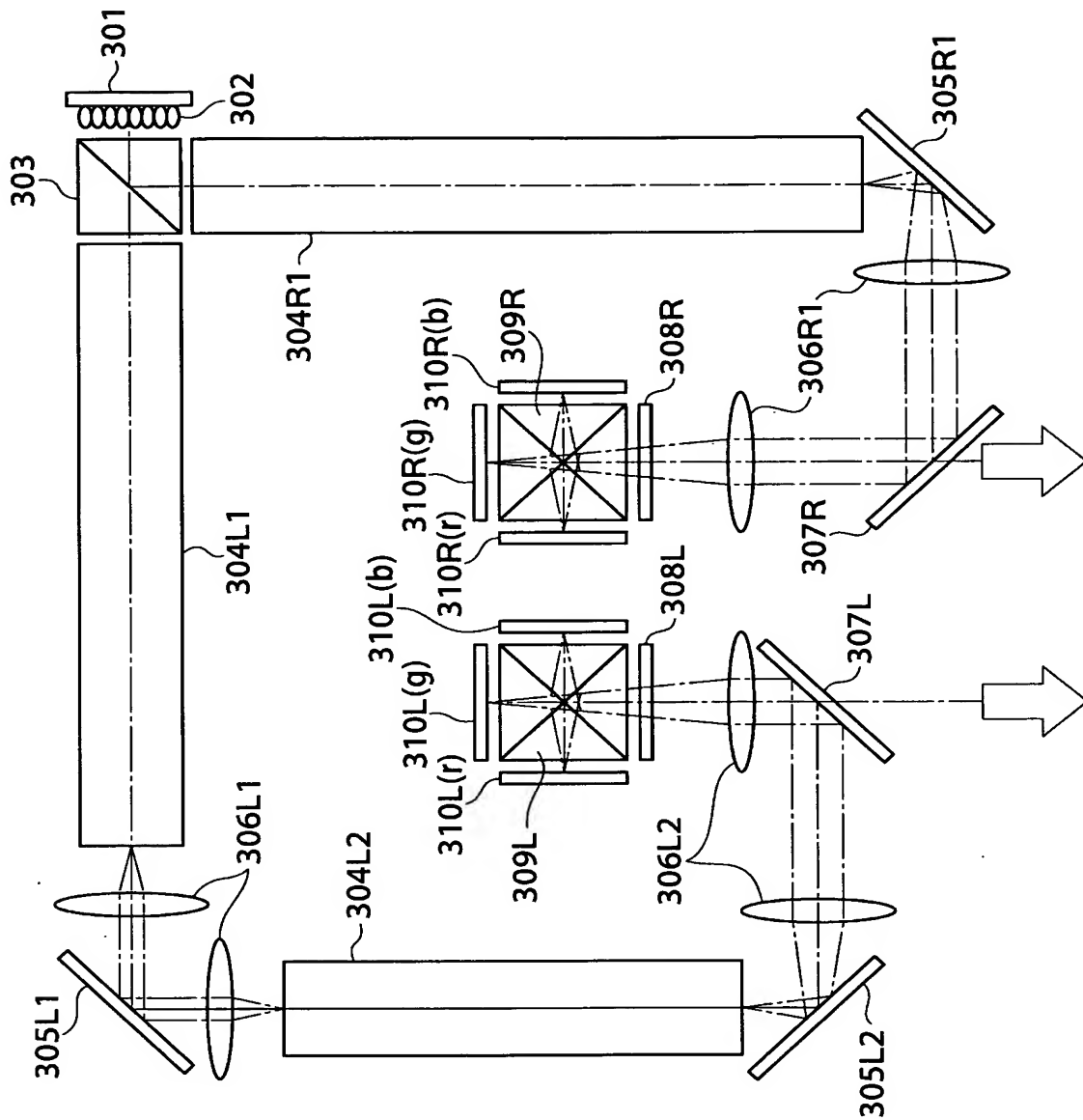


Fig. 19

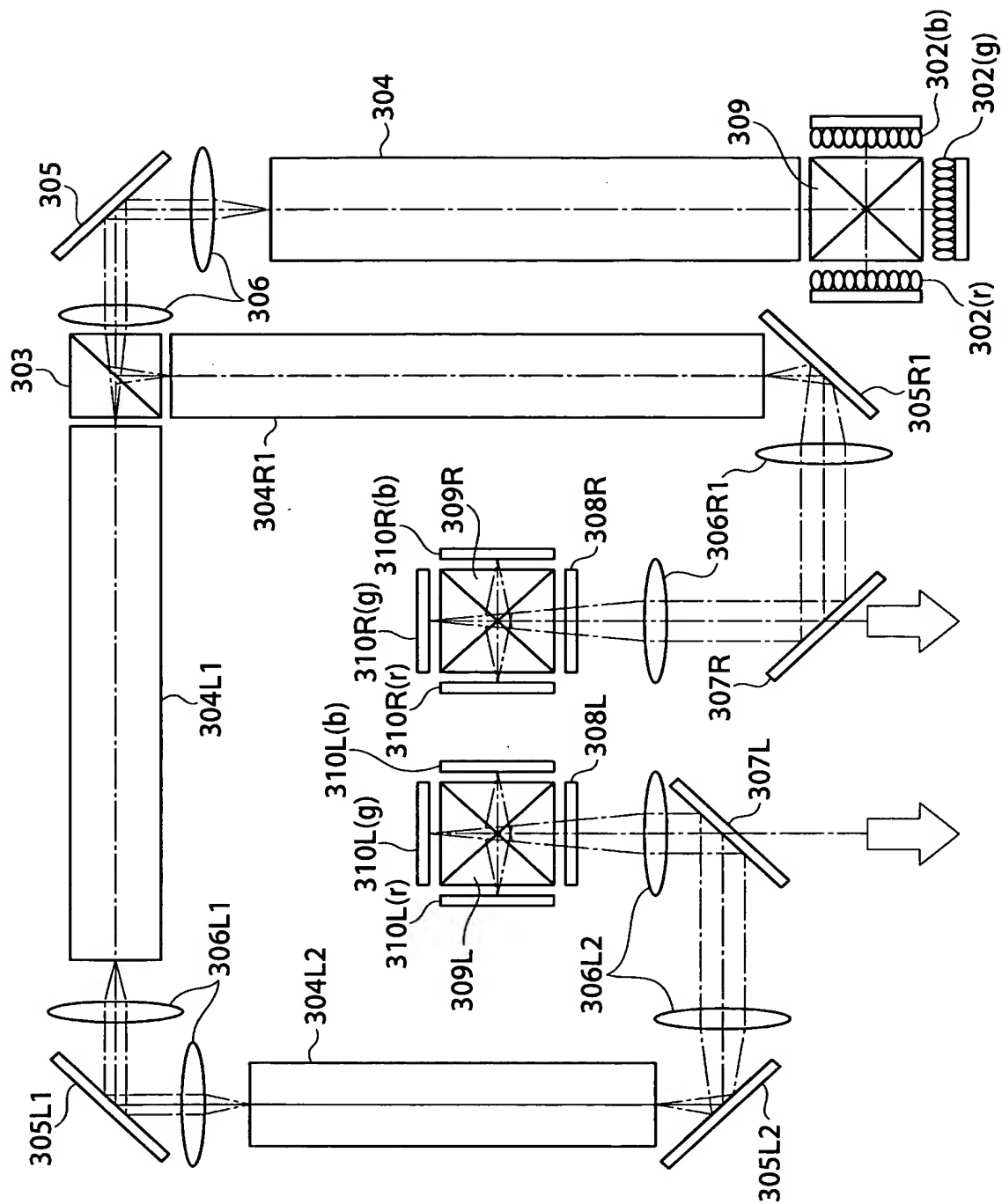


Fig. 20

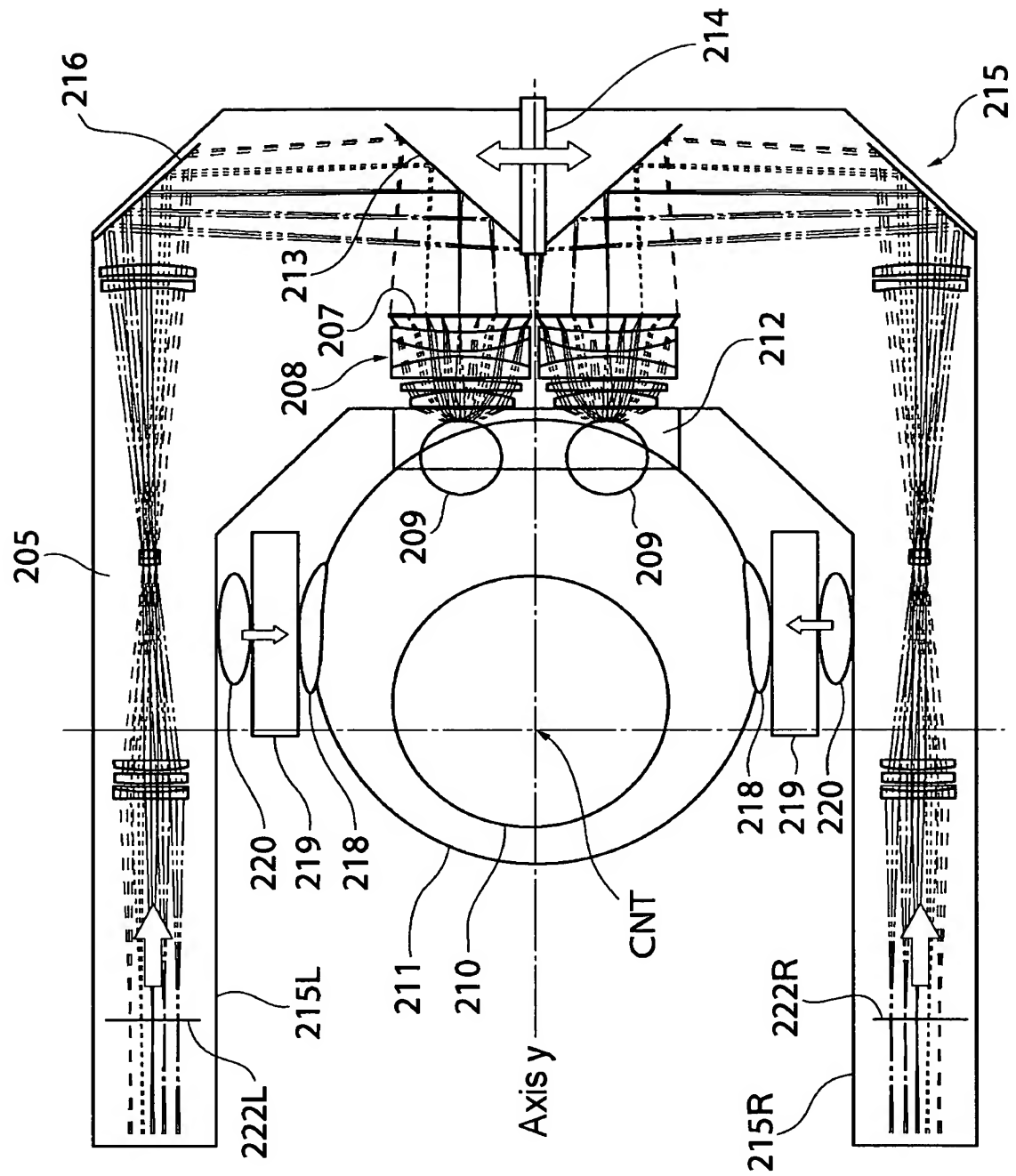


Fig. 21

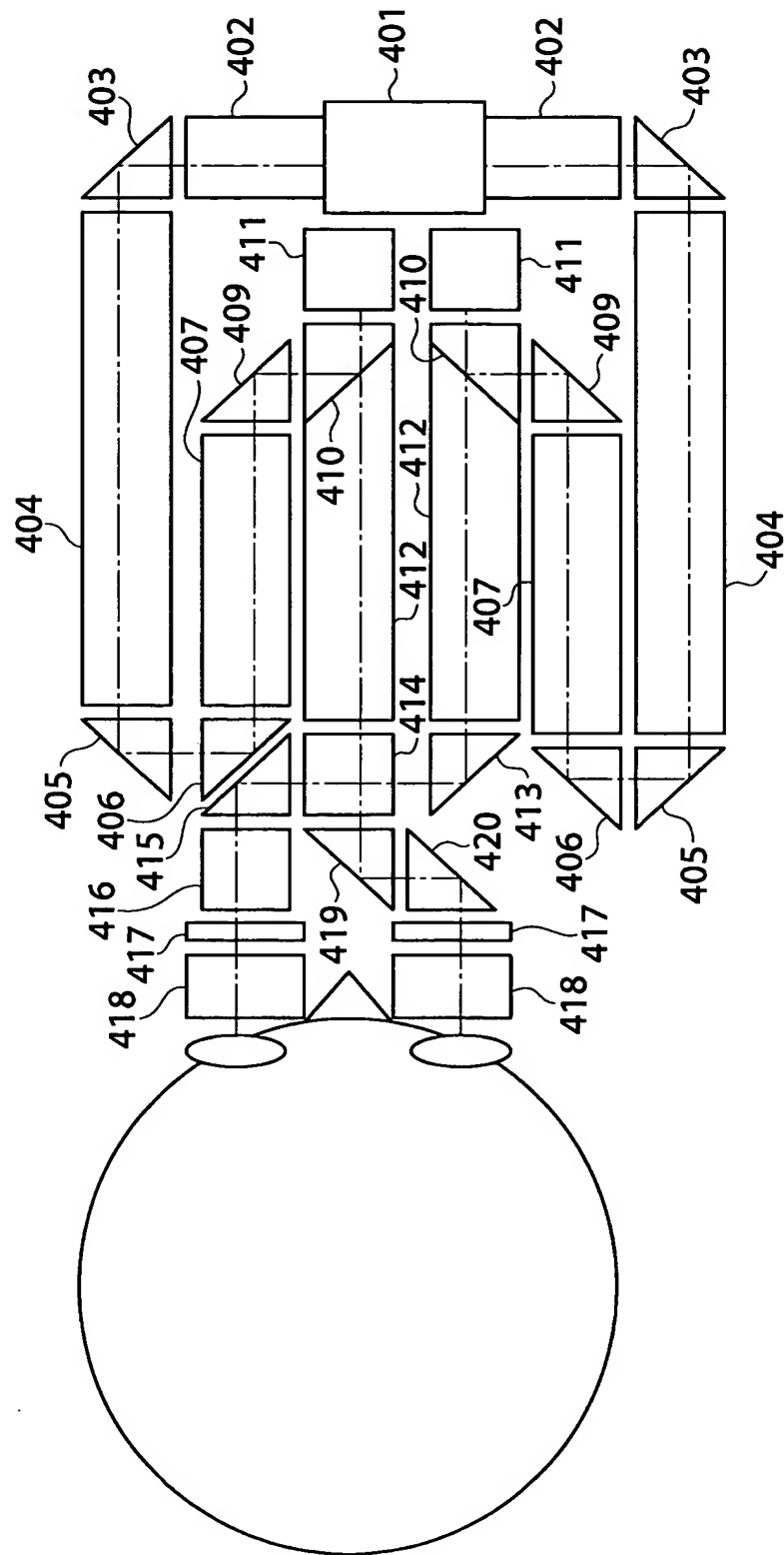


Fig. 22

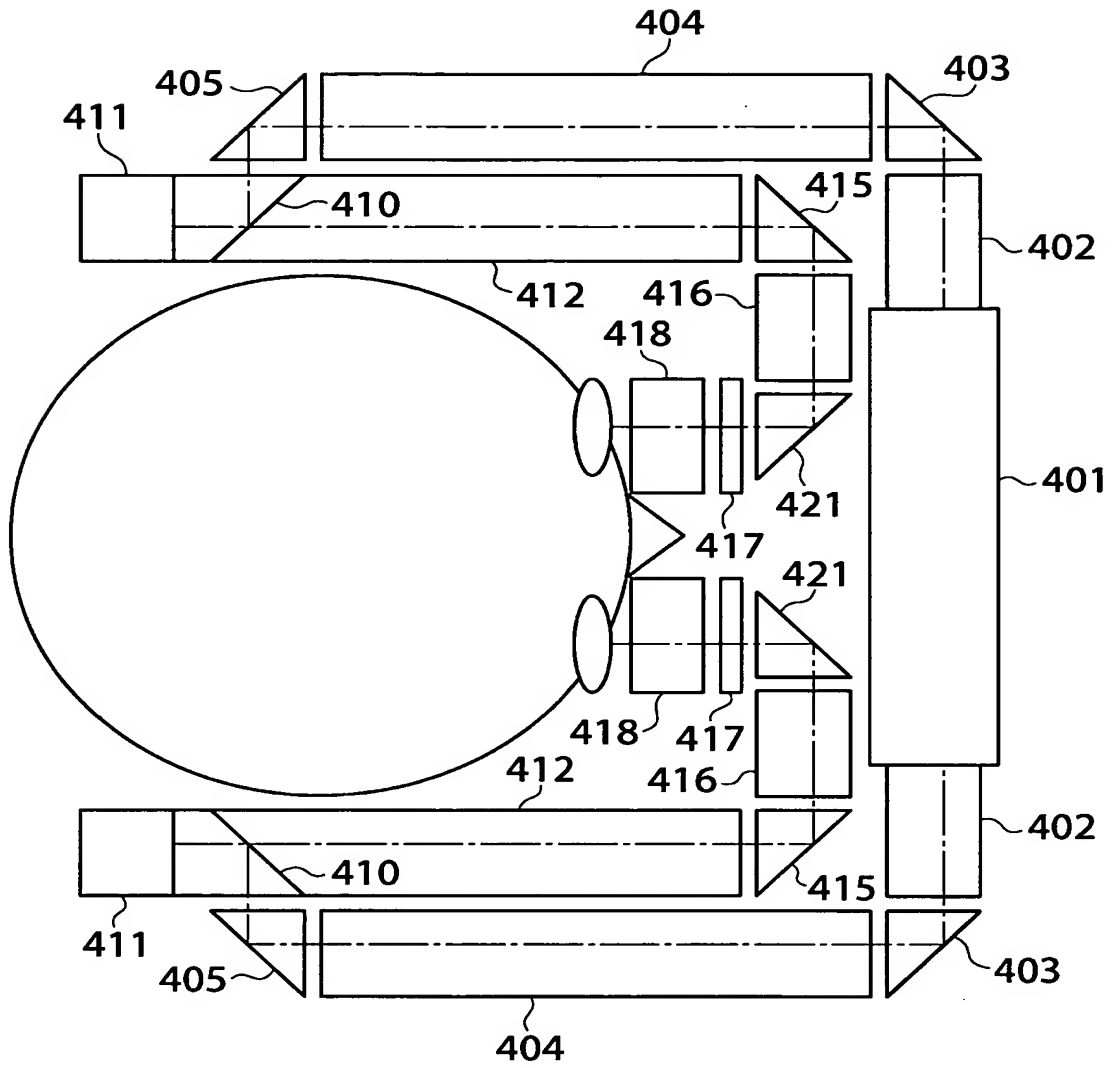


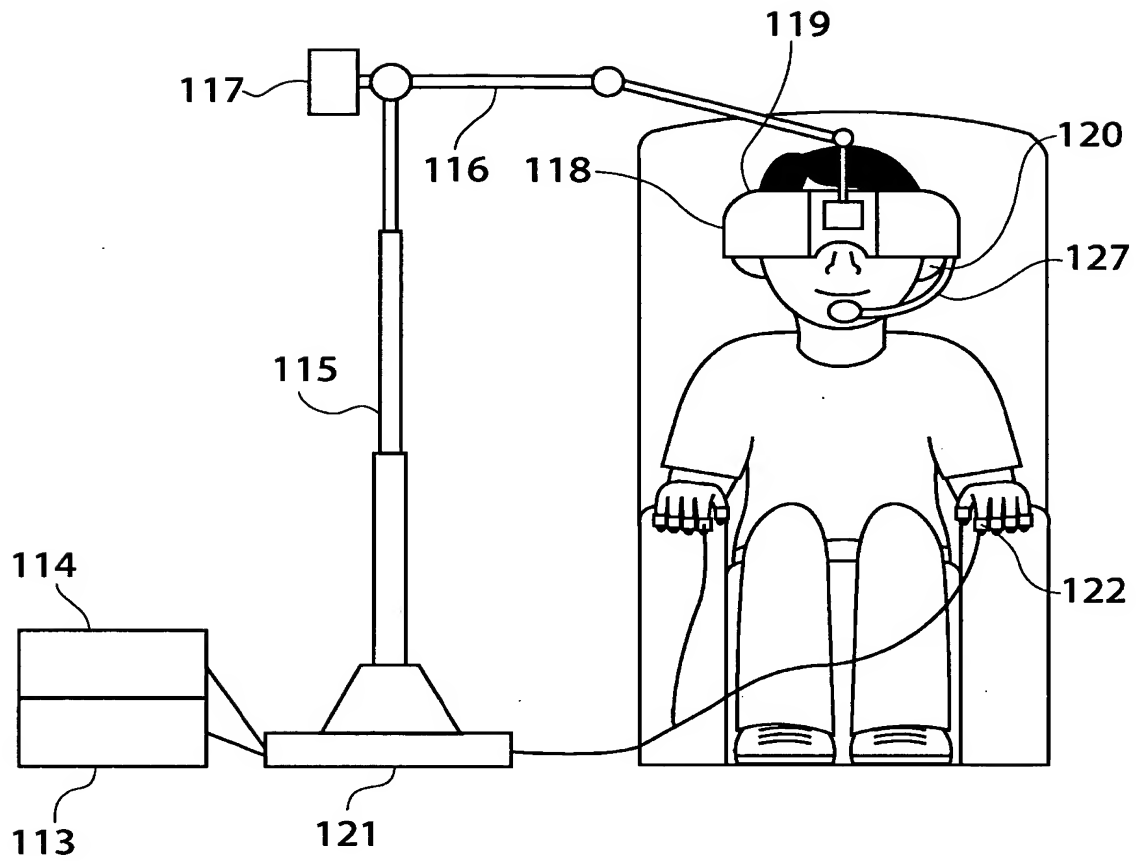
Fig. 23

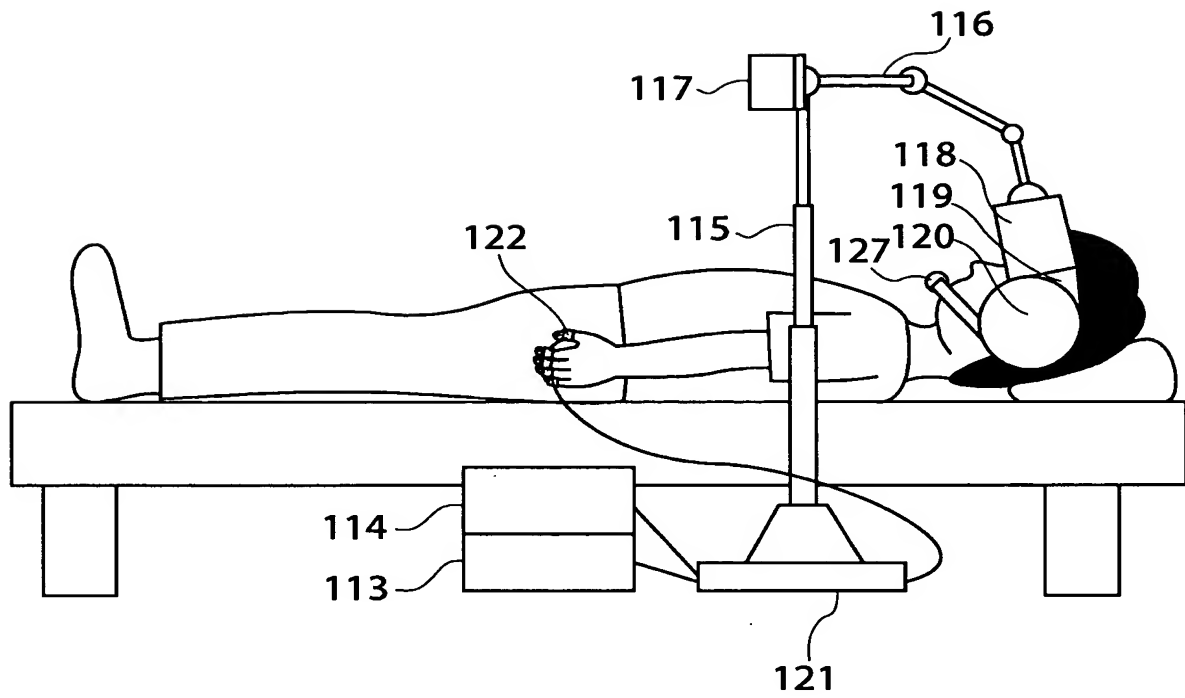
Fig. 24

Fig. 25

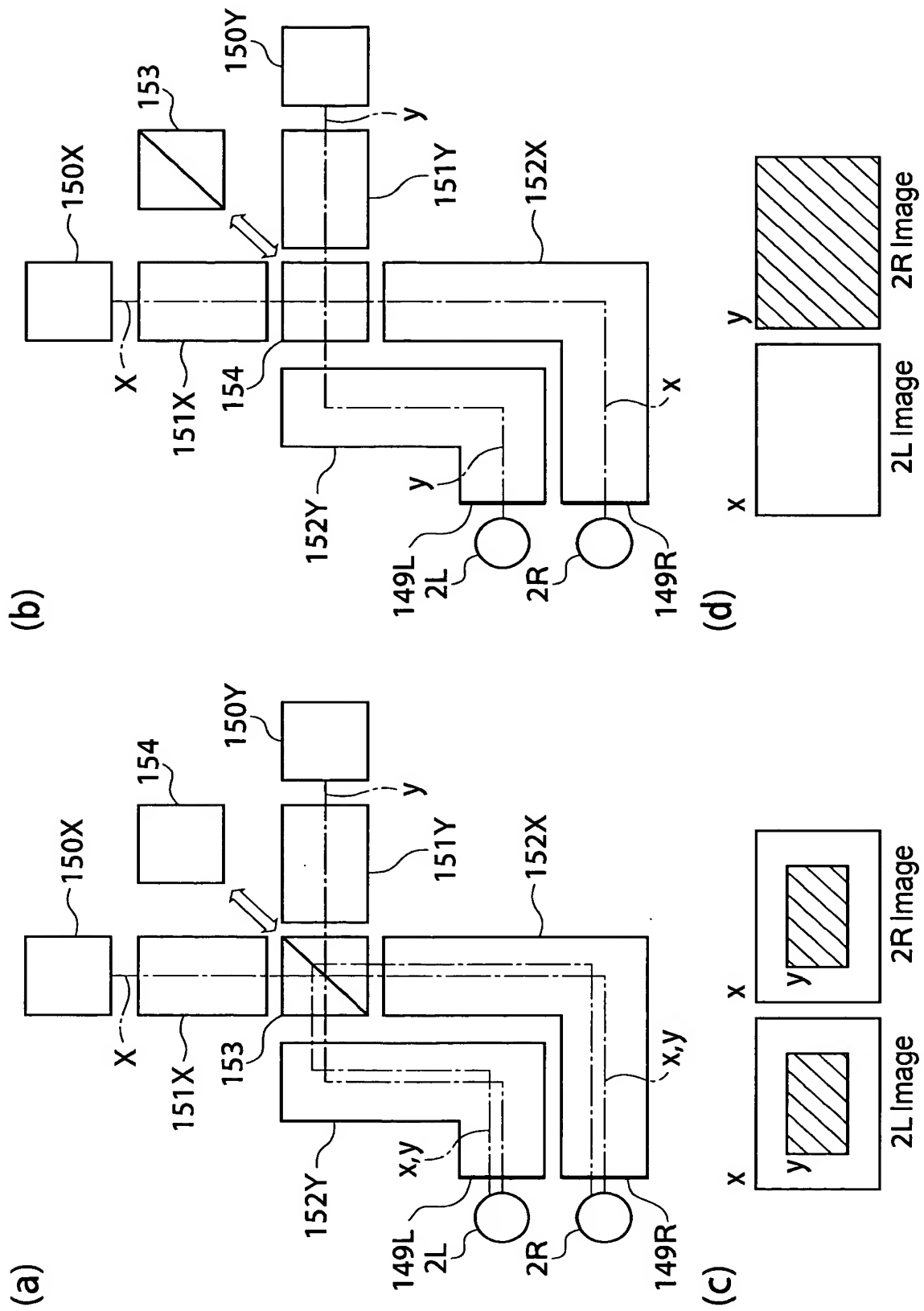


Fig. 26A

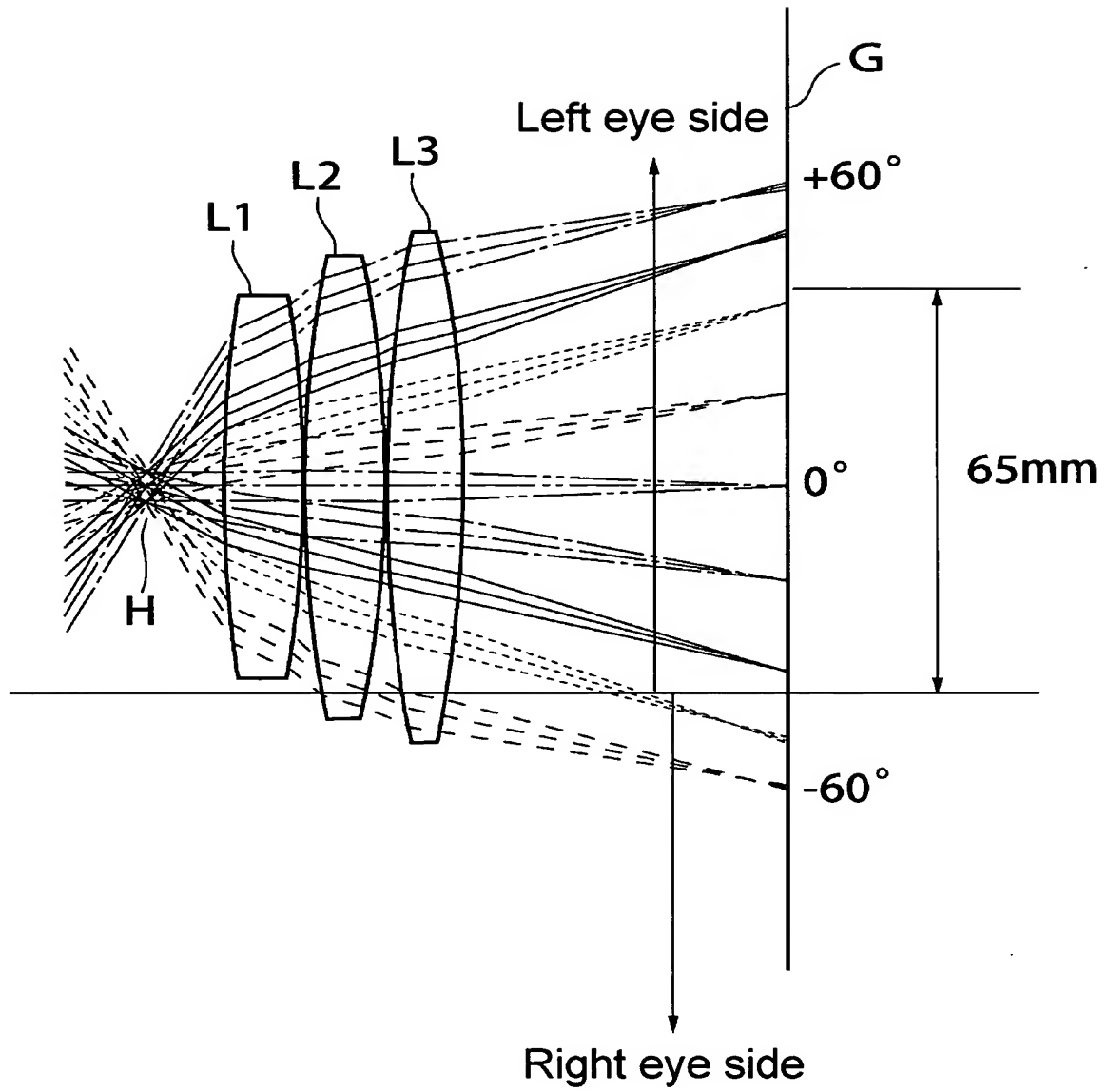


Fig. 26B

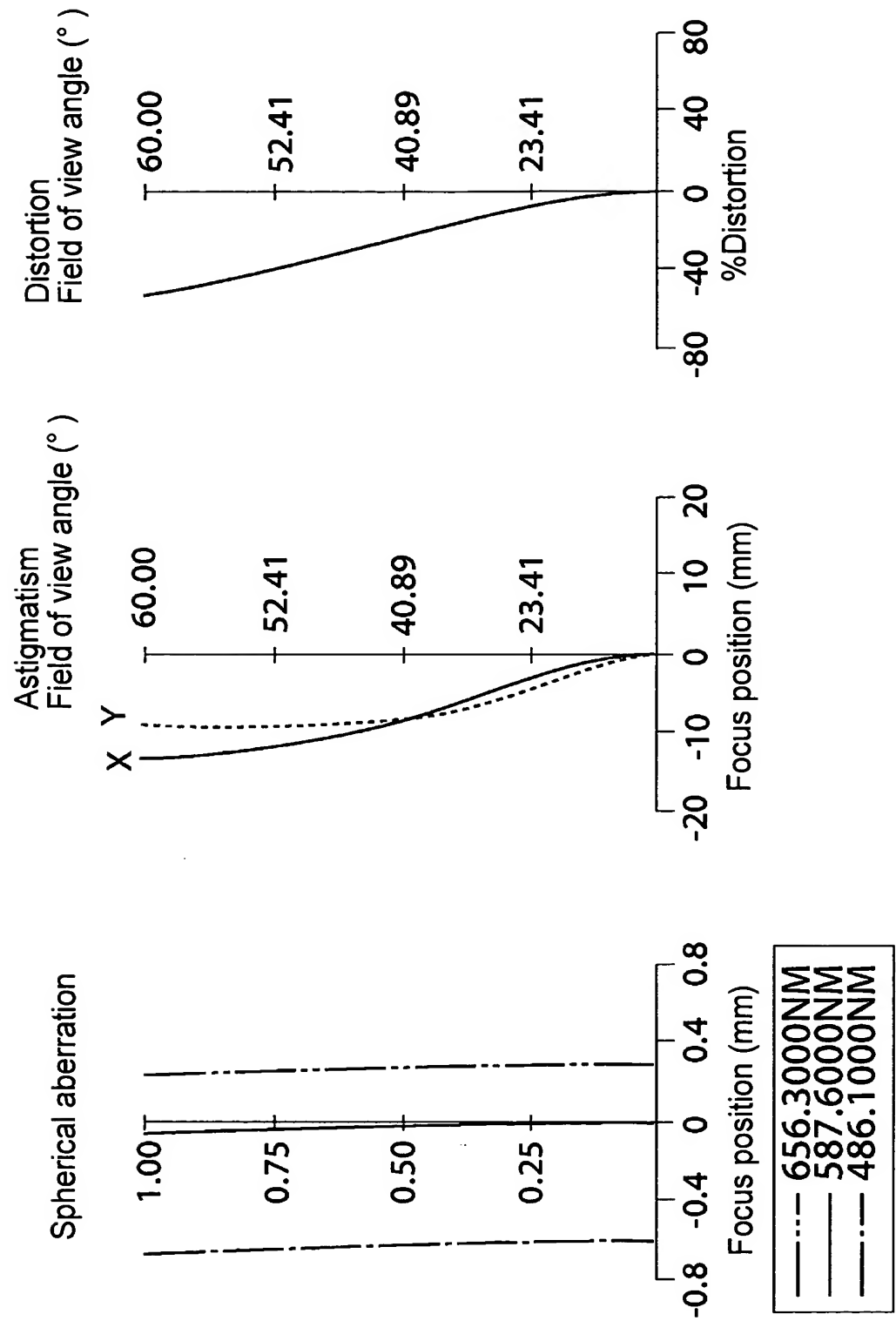


Fig. 26C

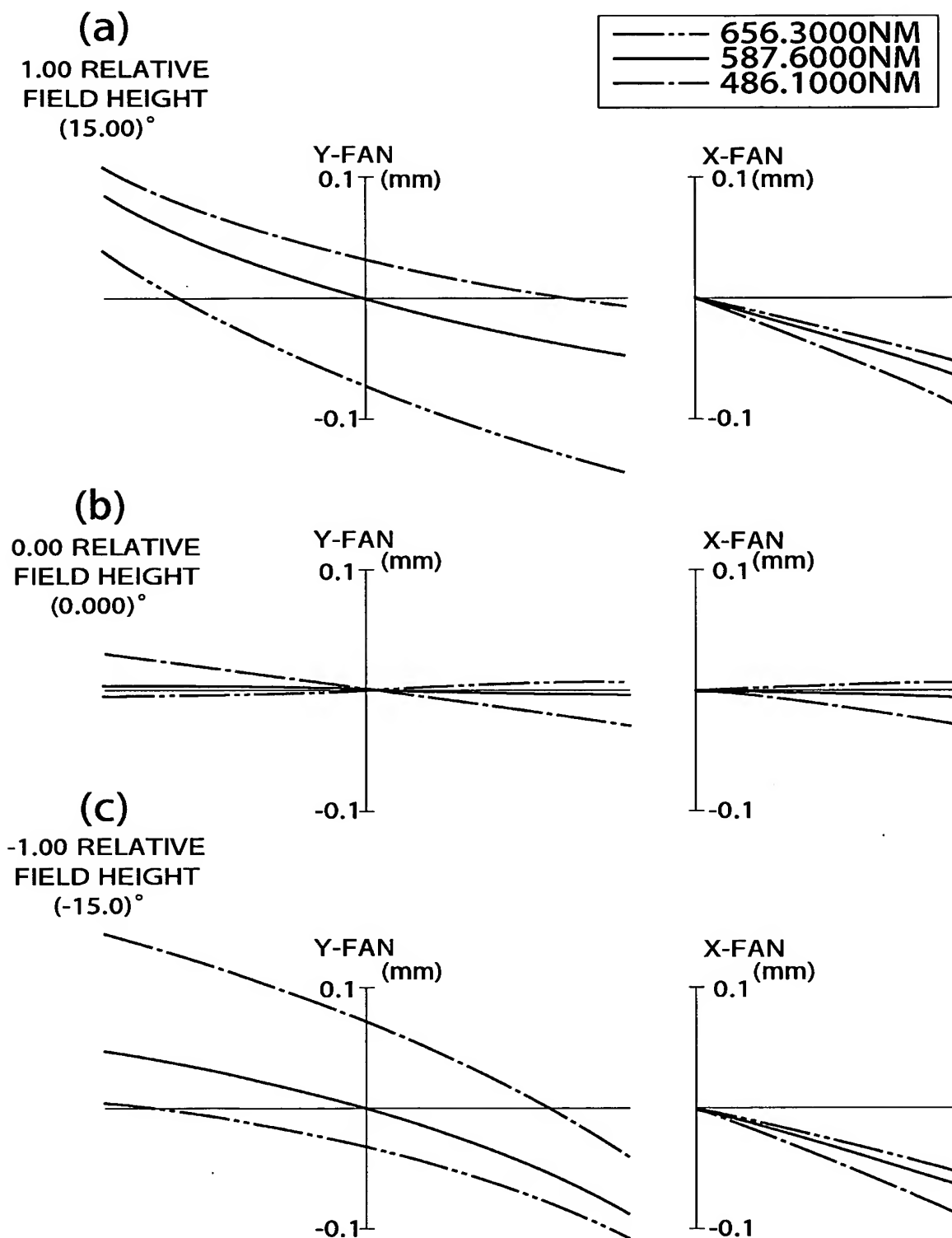


Fig. 26D

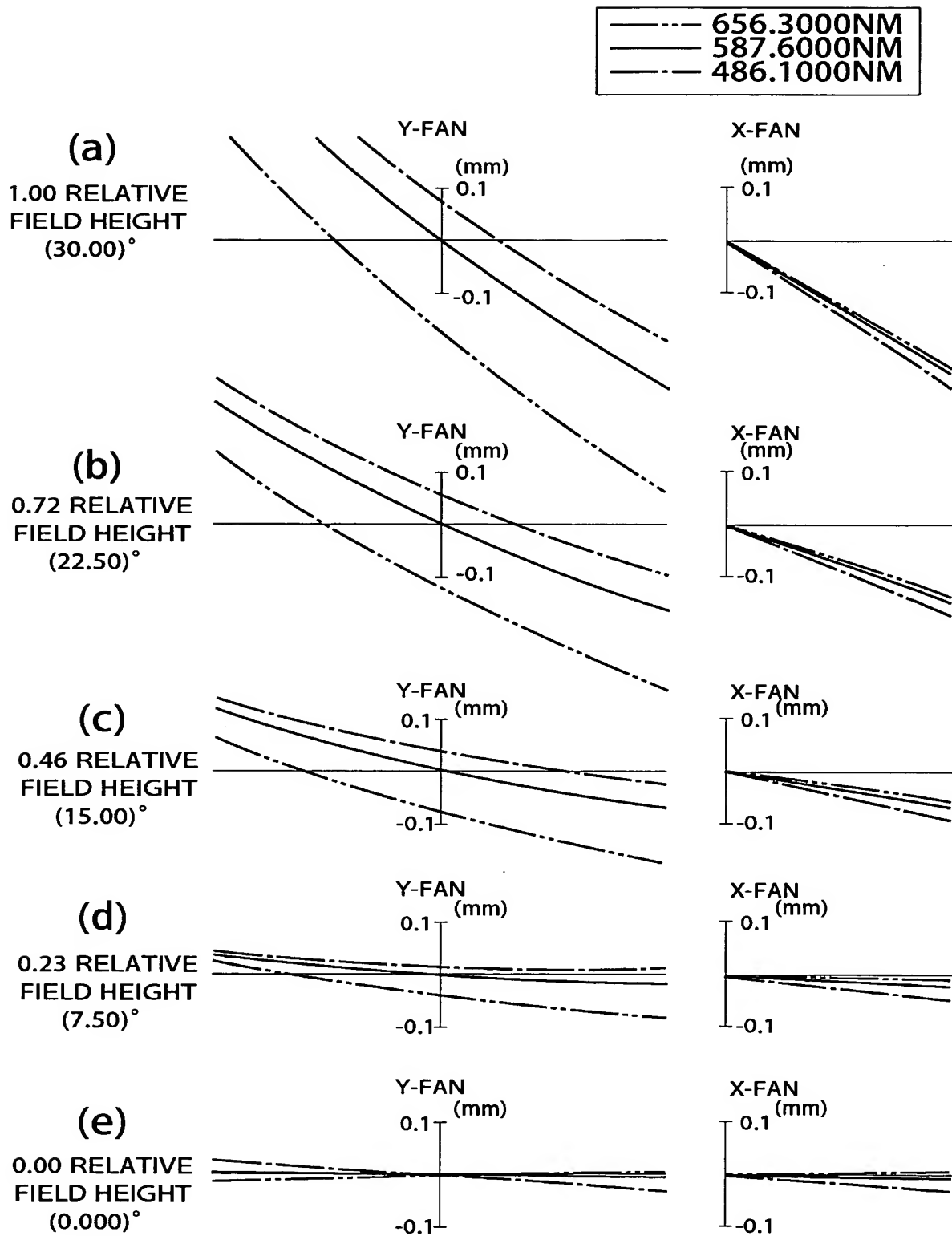


Fig. 27A

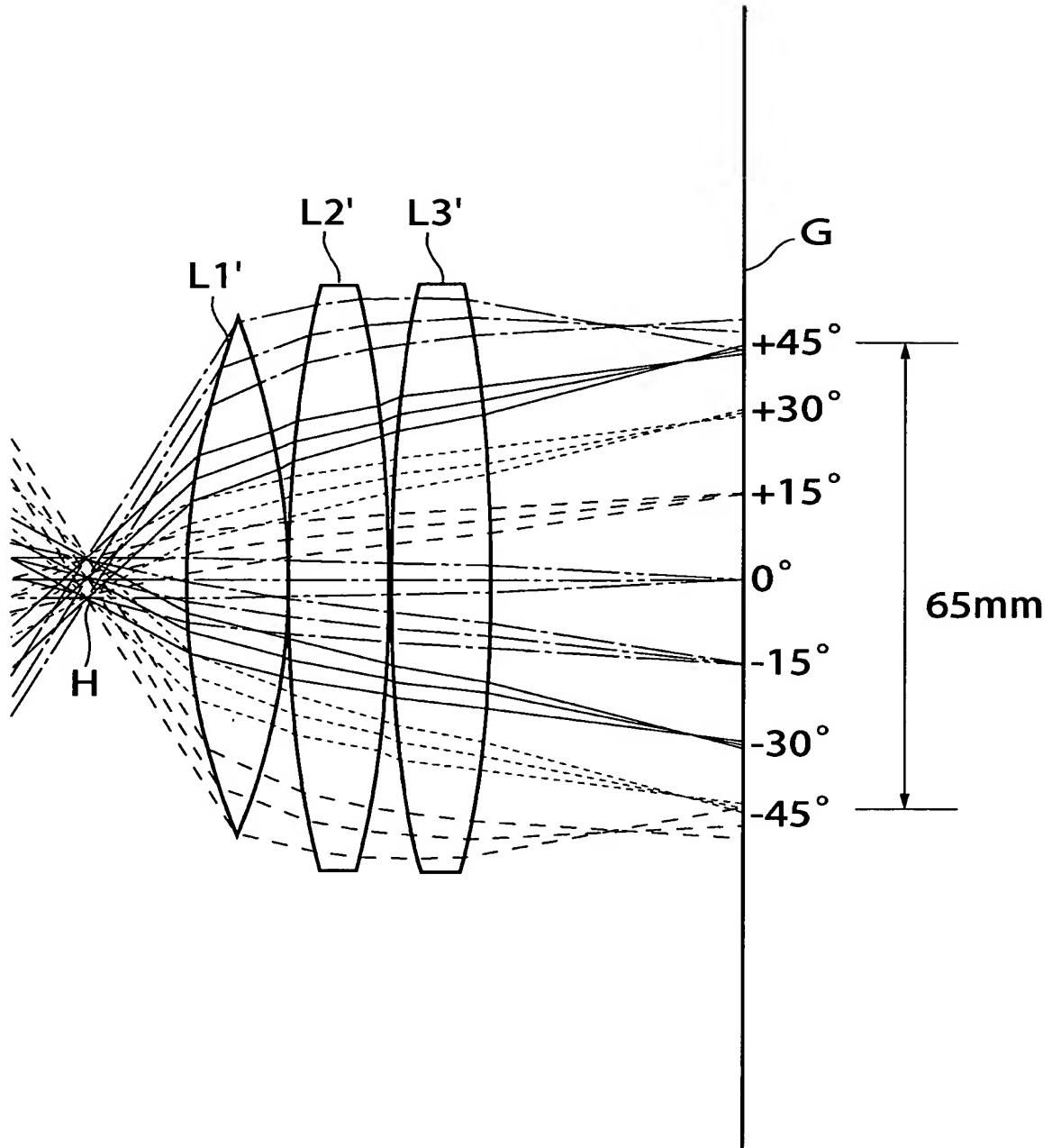


Fig. 27B

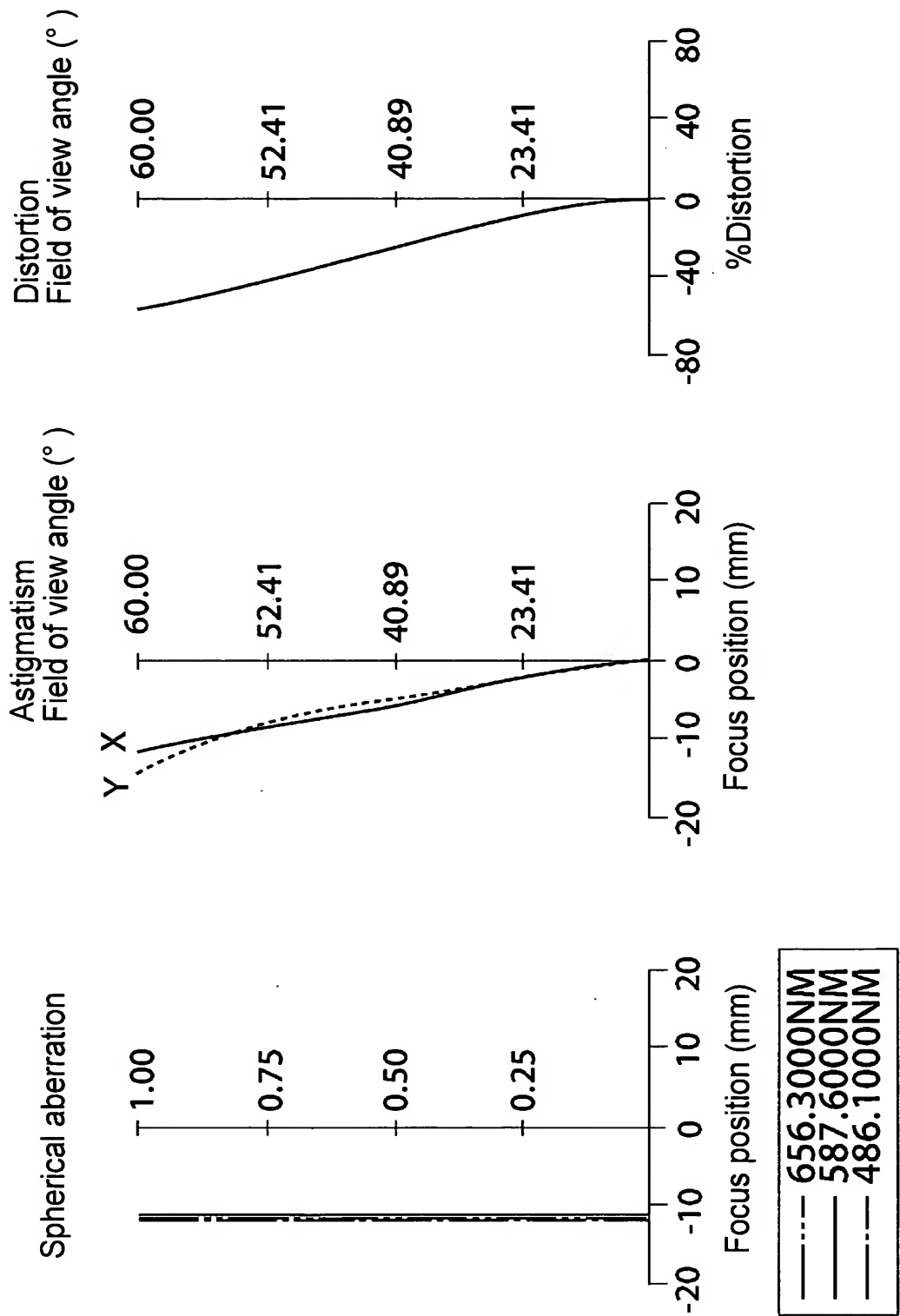


Fig. 27C

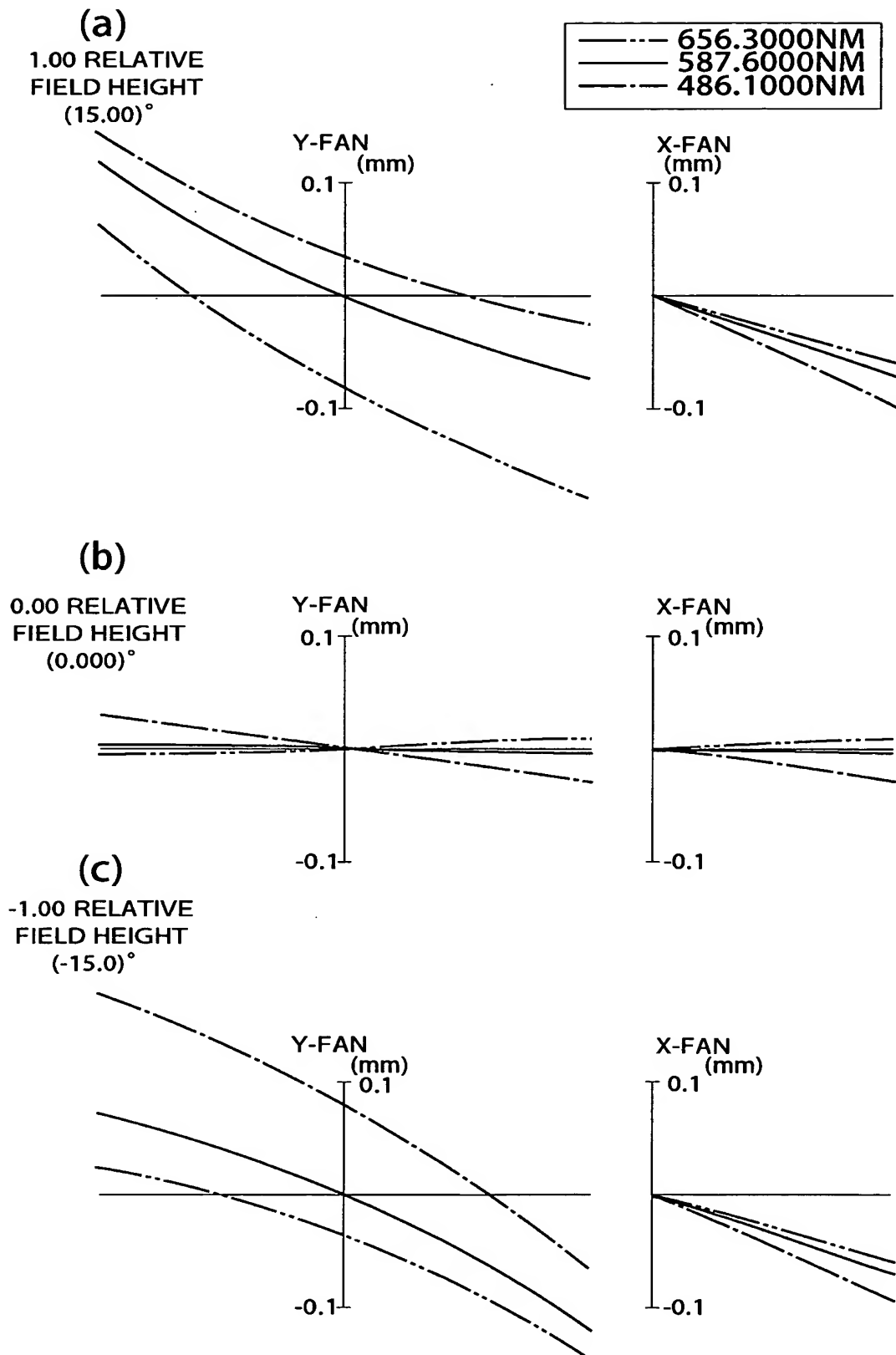


Fig. 28

